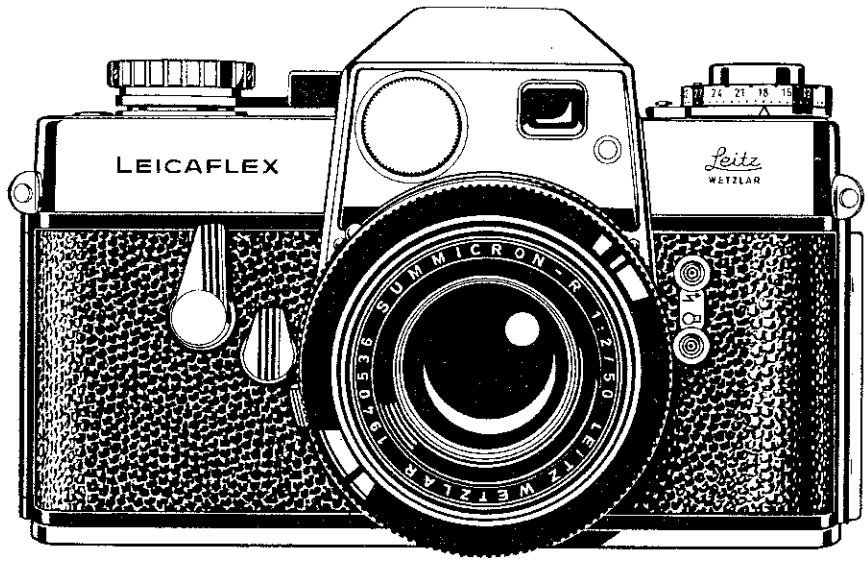
LEICAFLEX



Reparaturanleitung
Servicing Instructions

Ersatzteilliste
Spare Parts List

ERNST LEITZ GMBH WETZLAR

Introduction

This folder contains Servicing Instructions and Spare Parts Lists for the reflex camera LEICAFLEX.

The Servicing Instructions describe and illustrate assembly, adjustment, and repair procedures. The tools listed can be ordered from us.

Individual components and sub-assemblies should be cleaned with lead-free petrol or petroleum spirit after removal from the body unit. Escapements and delayed action mechanisms should not be dismantled for cleaning. Lacqered and engraved parts must not be treated with petrol, and should therefore be cleaned with a soft dry piece of leather or brush.

All parts to be lubricated must be dry.

Shutter blinds must not come into contact with petrol, oil, or grease.

The following lubricants are required, and can only be ordered from us:

No 602 (symbol ◉◉◉)
No 618 (symbol ◪◪◪)
No 704 (symbol ●●●)

No other lubricants must be used, as perfect working is guaranteed only with the lubricants tested by us.

Note that many lubricants attack various types of plastics and may under certain conditions dissolve them or cause them to swell. The lubricants must therefore come into contact only with the surfaces indicated in the lubrication charts. Storage for longer than a year should be avoided.

The following adhesives are needed for servicing:

B	Protective lacquer Thinner 13 652	only available from E. Leitz G.m.b.H., Wetzlar
C	AGOMET U 3 AGOMET hardener	
E	Adhesive EC 880	
P	ATLAS PLASTIK adhesive 500 ATLAS admixture IV ATLAS thinner 500	
U	UHU-hard	UHU, H. & M. Fischer, Bühl (Baden)

Components which are specified in the Spare Parts List as requiring treatment with adhesives must be free from grease. Remnants of hardened adhesive or cements should be removed with the appropriate thinner. Follow the instructions carefully to ensure perfect adhesion. (Instruction for the use of adhesives see Servicing Instructions for the Leica M2)

TECHNISCHER KUNDENDIENST

In the Spare Parts List every illustration page is accompanied by an itemized parts list. The illustration pages show the individual parts and sub-assemblies in their correct order of assembly. Points requiring application of lubricants or adhesives are marked by the appropriate symbols (e.g. ●●●) or letters (e.g. „B") respectively.
The itemized parts list pages indicate the part numbers and the description of any part that may have to be ordered, as well as the quantity required.
The part numbers shown on every illustration page are the same as those on the corresponding parts list.

Ordering Spare Parts

If, for example, the speed setting knob is required, adopt the following procedure: As the speed setting knob is mounted on the cover plate it will be found - from the contents list - to be on sheet 1.

After the part number has been located on the illustrated page the description must be found in the parts list where the items are listed in numerical sequence. In the spare parts price list the price group can also be found and from the price group index the DM price can be determined.

The order in this case reads as follows:

Pos.	Stück	Preis / St. DM	Bestell-Nr	Benennung
1	10	3.50	42-655.02-307	speed setting knob

The spare parts listed in this list are only to be ordered with the order forms supplied by the Technical Service Department as shown in the above exsample.

Only the components and sub-assemblies shown here can be ordered from us. Base plates are supplied only on return of the cut out section carrying the serial number of the damaged part.

TECHNISCHER KUNDENDIENST

The modifications are indicated by numbers stamped underneath the pressure plate of the camera back.

State 1 (original state) without number and with No. 1

Modification 2

Distinctions: The four countersunk screws around the picture window, visible when the back is opened, have been eliminated; a screw has been added on the shaft of the take-up spool.

Due to a change in the circuit, the right-hand rotary layer resistance located towards the shutter speed dial is disengaged for the battery test.
The voltage is supplied directly through the test resistance combination to the left-hand rotary layer resistance (see Repair Instructions, Sheet 10.2).

The diameter of the locating pin shaft has been reduced by 0.5 mm. To improve the guidance an additional bush is inserted (see Spare Parts List, Sheet 3.1). This modification prevents sticking of the little arresting lock. It can also be built into state 1 cameras.

Shutter and body have been modified with a view to their light-proofness. The parts of state 1 and modification 2 are not mutually interchangeable.

The shutter of modification 2 is distinguished from that of state 1 by a rubber-cloth loop each below and above the picture window.
The body of modification 2 differs from that of state 1 in that the two light bars fixed below and above the picture window and the four threaded holes for their attachment have been omitted.

Modification 3

Distinctions:
The window of the frame counter in the top plate is round and the tripod thread is cut into the bottom plate.

The battery of the exposure meter can be switched off by bringing the transport lever into the extreme left position towards the prism housing.

The stop of the transport lever has been moved slightly towards the front in order not to cover the frame counter and to make winding more convenient.

The spring of the bayonet has been equipped with a stop to avoid over-rotation. Subsequent installation of the spring is possible and is recommended in case of complaints.

Strap lugs can be replaced after removing the top plate.

The film rewind button is attached to the bottom plate as a sub-assembly.

The balancing potentiometers for the exposure meter have been moved so that balancing is possible without removing the top plate.

Cameras of past production cannot be modified to modification 3.

In order to further improve reliability in its fuctions some changes on the brake the slow-speed mechanism, and the flash socket have been incorporated.

TECHNISCHER KUNDENDIENST

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Modification 4

External features: Externally this modification can only be felt, not seen. The release lock acts considerably more stiffly. It is clearly noticed wheter the shutter is wound or released. It is no longer possible to release the wound delayed-action mechanism when the shutter is not wound.

For reasons of production technique the gumming of the roller blinds has been slightly shifted away from the picture gate when the shutter is wound. In addition the intermediate gear wheels have been changed so that the roller blinds are moved a little further in.
The shutters of modifications 3 and 4 are not interchangeable.
A conversion of cameras of earlier productions to modification 4 is not possible.

TECHNISCHER KUNDENDIENST

Ernst Leitz G m b H Wetzlar	Repair instructions for the LEICAFLEX	Sheet 1 bis 49

Index of servicing instruction sheets

Description	Sheet
Removing and replacing the top plate	1
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Removing and replacing the baseplate and the hinged back	3
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TECHNISCHER KUNDENDIENST

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Removing and replacing the top plate

Sheets 1 and 2

Tools

1.	Spanner	42-655.01 Z1 W33
2.	Spanner	42-655.01- 29 W 8
3.	Spanner	42 655 01 31 W 3
4.	Spanner	42-655.01-126 W 1
5.	Collet chuck	42-655.01-295 W 3
6.	Spanner	42-655.01-303 W 2
7.	Spanner	42-655.02-181 W 3
8.	Spanner	42-655.02-185 W 2

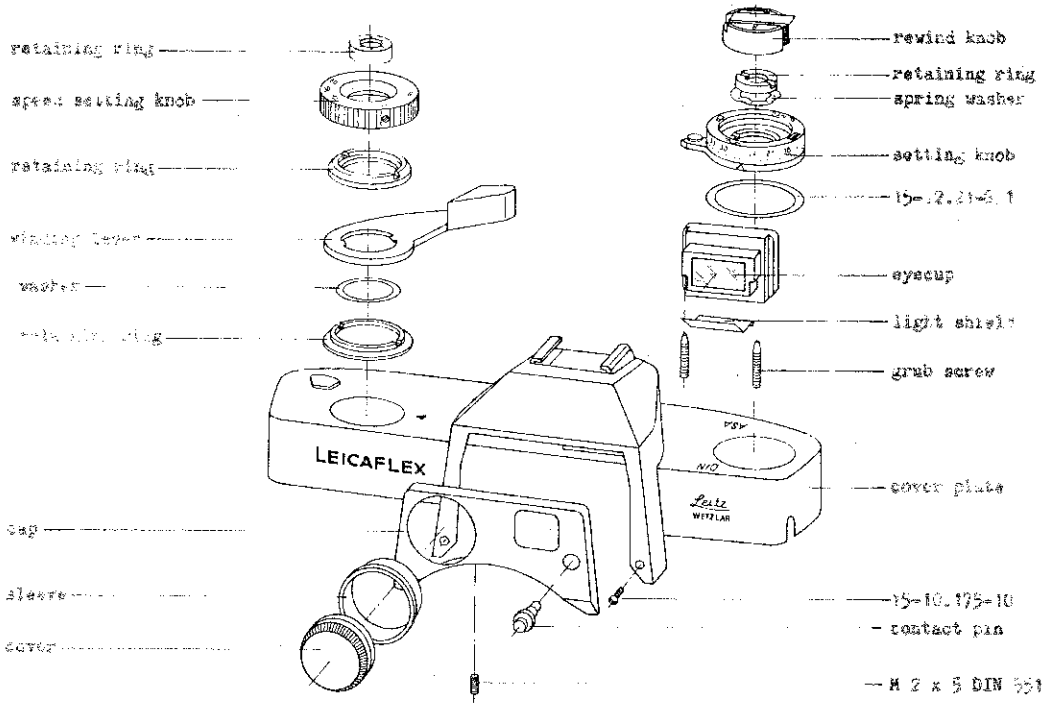

Fig. 1.1

Procedure

Winding lever

Unscrew retaining ring with spanner 42-655.02-185 W2, lift off speed setting knob sub-assembly.

Unscrew winding lever retaining ring with spanner 42-655.02-181 W3, removing winding lever and washer, unscrew retaining ring with spanner 42-655.01-126 W1.

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Eyecup

Open hinged back, slacken the two grub screws visible from below until the eyecup can be pulled out. Take out the light shield.

TECHNISCHER KUNDENDIENST

Removing and replacing the top plate

Continuation of Sheet 1

Rewind knob
Turn up lever, loosen 1 grub screw M 1.4x2 DIN 553, hold spindle with back of tweezers from the cassette chamber, and unscrew rewind knob anti-clockwise.
Unscrew retaining ring with spanner 42-655.01-31 W3, remove spring washer. Remove setting knob with DIN cam and disc 15-12.21-8/1 (When replacing the setting knob with DIN cam set the shutter at 1/2000 sec.)

Cap
Unscrew cover and remove mercury battery. 1 grub screw M2 x 5 DIN 551, and unscrew sleeve with spanner 42-655.01-295 W3.

Unscrew contact pin with spanner 42-655.01-303 W2, remove cap.

Cover plate
Unscrew two screws 15-10.175-10 (to the left and right of the bayonet ring) Insert spanner 42-655.01 Z1 W33 below the camera top at the eyecup aperture and remove cover plate.
The cover plate is replaced in the reverse order.

Check all functions.
If necessary readjust the DIN cam on the setting knob with spanner 42-655.01-29 W2.

TECHNISCHER KUNDENDIENST

Removing and replacing the baseplate and the hinged back

Sheet 3

Tool

1. Flat pliers 42 216-70 W5

Procedure

Baseplate (See spare-parts list, sheet 2.1)

Unscrew the three screws of the tripod bush, pull out the tripod bush with a 1/4" tripod screw of the ever ready case.
Remove the washer. Unscrew two screws M 1.4x3 LN 120 19 and take out two bushes.
Unscrew nut with flat pliers 42 216-70 W5, remove sleeve.
Remove baseplate and washer.

Hinged back (See spare-parts list, sheet 2.1)

Push shaft with a pin or tweezers in from the camera top and pull out. Remove hinged back. The baseplate and hinged back are replaced in the reverse order.

After mounting the back, insert the cassette gauge 42-655.01 Z1 A37 in the cassette chamber, and close the back. Tilt the camera to check whether the gauge moves in the cassette chamber. The play must not be so large as to permit movement of the cassette when slight pressure is exerted on the back. Adjustment is possible by inserting the appropriate packing 42-655.07-12 or 42-655.07-13 or 42-655.07-14 (see Spare Parts List, sheet 2).

TECHNISCHER KUNDENDIENST

Removal and replacement of the bayonet ring

Sheet 4

Tools

1. Measuring instrument for zeroing	42-253.01 Z1	A70**
2. Locking pin	42-253.01 Z1	W84
3. Turning device	42-253.01-533,	W15*
4. Autocollimation telescope	42-582.01 Z1	W4
5. Extension ring	42-582.01 Z1	W4-26

Procedure

Removal of the bayonet ring.
Unscrew 5 screws 15-10.20-24 and one screw 42-655.04-152.
Remove bayonet ring and bayonet spring. Take out arresting pin and pressure spring.

Mounting the bayonet ring.
Wind shutter and set at "B". Screw locking pin 42-253.01 Z1 W84 into release button, release shutter.
Place LEICAFLEX on its back on the measuring instrument for zeroing 42-253.01 Z1 A70**. Insert bayonet ring in LEICAFLEX housing and measure the distance between bayonet ring and measuring plate with the dial gauge. Chuck bayonet ring on lathe with turning device 42-253.01-535 W15*, and turn the face of the bayonet ring according to the measurement. The measurement 47.15± 0.01 (see Fig. 2.1) must be maintained after the bayonet ring is screwed tight. The bayonet ring is fixed to the housing with 5 screws 15-10.20-24 and one screw 42-655.04-152.

Check parallelism of bayonet ring and film channel face on the measuring instrument for zeroing with the autocollimating telescope 42-582.01 Z1 W4 in combination with the flange 42-582.01 Z1 W4-24. Deviations of ½ line width are admissible.

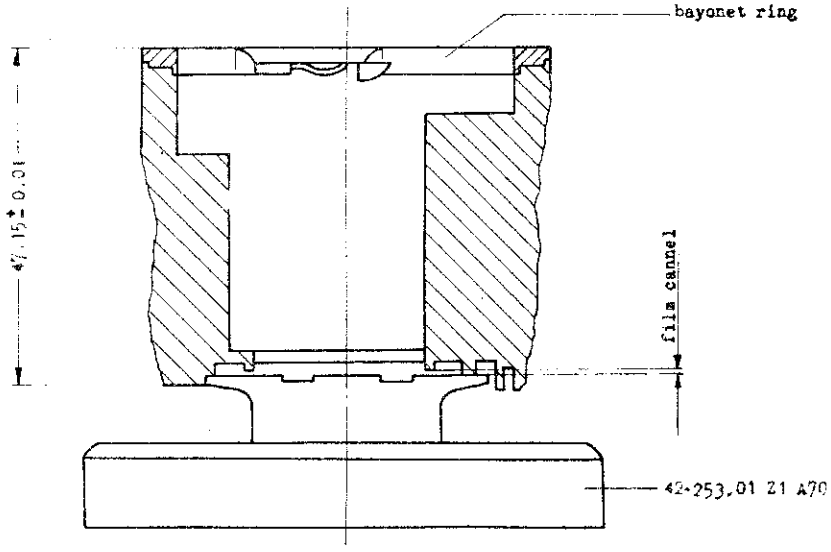

Fig. 2.1

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* See table of turning devices
** See table of zeroing

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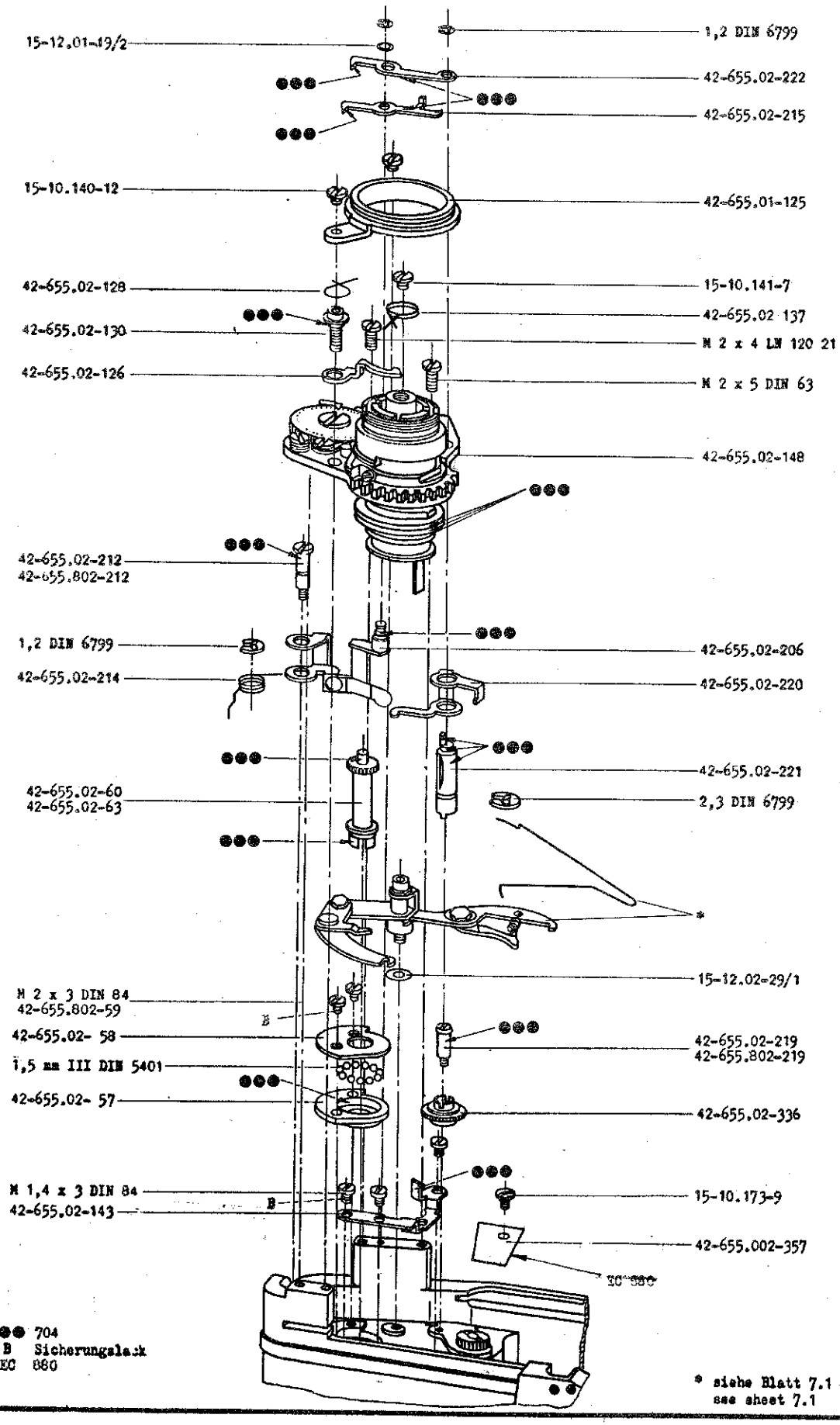

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LEICAFLEX

Ausgangszustand ... Zustand 2
original state ... state 2

Blatt Sheet 12.1

Bestell-Nr Part-No	Benennung Description	LEICAFLEX
AM 1,7 x 2 DIN 84	Zylinderschraube, brüniert cylindrical head screw, burnished	2
15-10.142- 8	Linsenschraube, brüniert oval head screw, burnished	1
15-10.172-11	Schraube, brüniert screw, burnished	1
15-12.02-36/1	Scheibe, 0,3 mm dick washer, 0.3 mm thick	1

TECHNISCHER KUNDENDIENST

Blatt Sheet 12.1

LEICAFLEX

Ausgangszustand ... Zustand 2
original state ... state 2

Leitz WETZLAR

Bestell-Nr Part-No	Benennung Description	LEICAFLEX
42-655.02-127	Anschlaghebel stop lever	1
42-655.02-129	Ansatzschraube shoulder screw	1
42-655.02-135	Zeiger pointer	1
42-655.02-170	Auslöseachse release spindle	1
42-655.02-171	Auslösewinkel release angle	1
42-655.02-172	Zylinderschraube cylindrical head screw	1
42-655.02-182	Auslöseknopf release button	1
42-655.02-183	Haltering retaining ring	1
42-655.02-184	Hülse sleeve	1
42-655.02-186	Buchse bush	1
42-655.02-188	Zählscheibe, schwarz lackiert counting disk, dull black	1
42-655.02-189	Schraube screw	1
42-655.02-190	Spiralfeder spring	1
42-655.02-191	Anschlag stop	1
42-655.02-192	Schenkelfeder spring	1
42-655.02-193	Ansatzschraube shoulder screw	1
42-655.02-194	Zwischenstück intermediate piece	1
42-655.02-197	Hulse, 2,8 mm ang, bei Bedarf sleeve, 2.8 mm long, when needed	2
42-655.02-198	Scheibe washer	2
42-655.02-199	Hülse, 2,4 mm lang, bei Bedarf sleeve, 2.4 mm long, when needed	2
42-655.02-200	Hülse, 2,6 mm lang, bei Bedarf sleeve, 2.6 mm long, when needed	2
42-655.02-264	Gehäuse housing	1
42-655.02-346	Abstandstück intermediate piece	1
42-655.02-347	Schenkelfeder spring	1
42-655.02-348	Hebel lever	1
42-655.02-349	Ansatzschraube shoulder screw	1
42-655.02-351	Anschlag, 0,4 mm dick, bei Bedarf stop, 0.4 mm thick, when needed	1
42-655.02-352	Anschlag, 0,3 mm dick, bei Bedarf stop, 0.3 mm thick, when needed	1
42-655.02-353	Anschlag, 0,2 mm dick, bei Bedarf stop, 0.2 mm thick, when needed	1
M 1,2 x 2 DIN 84	Zylinderschraube, brüniert cylindrical head screw, burnished	1

TECHNISCHER KUNDENDIENST

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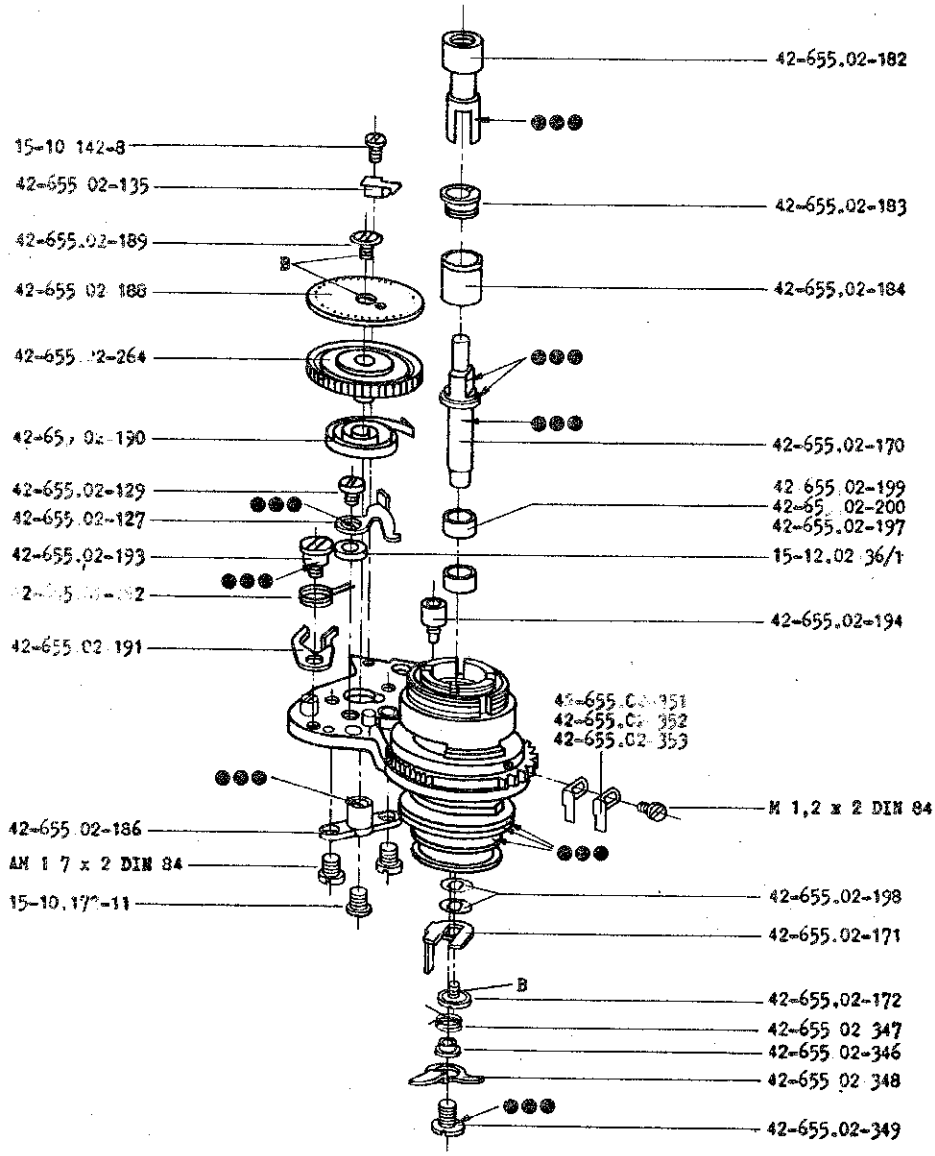

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B Sicherungslack

TECHNISCHER KUNDENDIENST

Bestell-Nr Part-No	Benennung Description	LEICAFLEX
AM 1,7 x 2 DIN 84	Zylinderschraube, brüniert cylindrical head screw, burnished	2
15-10.142- 8	Linsenschraube, brüniert oval head screw, burnished	1
15-10.172-11	Schraube, brüniert screw, burnished	1
15-12.02-36/1	Scheibe, 0,3 mm dick washer, 0.3 mm thick	1

TECHNISCHER KUNDENDIENST

LEICAFLEX

Zustand 3 ...
state 3 ...

Leitz WETZLAR

Bestell-Nr Part-No	Benennung Description	LEICAFLEX
42-655.02-129	Ansatzschraube shoulder screw	1
42-655.02-132	Anschlaghebel stop lever	1
42-655.02-145	Index index	1
42-655.02-170	Auslöseachse release spindle	1
42-655.02-171	Auslösewinkel release angle	1
42-655.02-172	Zylinderschraube cylindrical head screw	1
42-655.02-182	Auslöseknopf release button	1
42-655.02-183	Haltering retaining ring	1
42-655.02-184	Hülse sleeve	1
42-655.02-186	Buchse bush	1
42-655.02-189	Schraube screw	1
42-655.02-190	Spiralfeder spring	1
42-655.02-191	Anschlag stop	1
42-655.02-192	Schenkelfeder spring	1
42-655.02-193	Ansatzschraube M 1,7 shoulder screw M 1.7	1
42-655.02-194	Zwischenstück intermediate piece	1
42-655.02-197	Hülse, 2,8 mm lang, bei Bedarf sleeve, 2.8 mm long, when needed	2
42-655.02-198	Scheibe washer	2
42-655.02-199	Hülse, 2,4 mm lang, bei Bedarf sleeve, 2.4 mm long, when needed	2
42-655.02-200	Hülse, 2,6 mm lang, bei Bedarf sleeve, 2.6 mm long, when needed	2
42-655.02-201	Zählscheibe, verchromt counting disk, chrome-plated	1
42-655.002-205	Hülse 2,8 mm lang, bei Bedarf sleeve 2.8 mm long, when needed	1
42-655.02-264	Gehäuse / housing	1
42-655.02-346	Abstandstück / intermediate piece	1
42-655.02-347	Schenkelfeder spring	1
42-655.02-348	Hebel lever	1
42-655.02-349	Ansatzschraube shoulder screw	1
42-655.02-351	Anschlag, 0,4 mm dick, bei Bedarf stop, 0,4 mm thick, when needed	1
42-655.02-352	Anschlag, 0,3 mm dick, bei Bedarf stop, 0.3 mm thick, when needed	1
42-655.02-353	Anschlag, 0,2 mm dick, bei Bedarf stop, 0.2 mm thick, when needed	1

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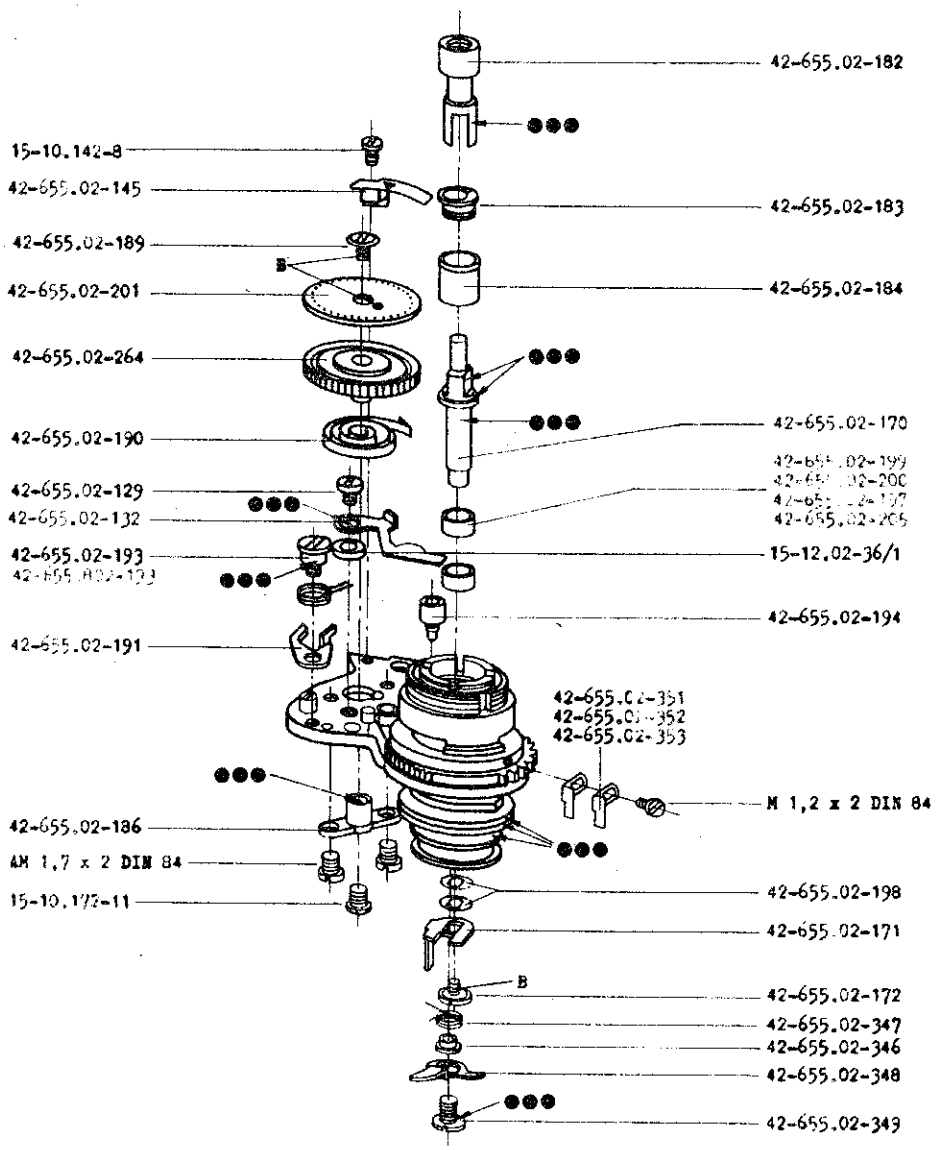
15. 3.1968



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B Sicherungslack

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LEICAFLEX

Ausgangszustand ...
original state ...

Bestell-Nr Part-No	Benennung Description	LEICAFLEX
3,2 DIN 6799	Sicherungsscheibe C-clip	1
15-10.140-12	Schraube, brüniert screw, burnished	1
15-10.20 - 8	Schraube, brüniert screw, burnished	1
15-12.01-21/2	Scheibe, 0,3 mm dick washer, 0.3 mm thick	1
15-12.04-26/5	Unterlegscheibe, 0,3 mm dick washer, 0.3 mm thick	1
15-12.05-11	Scheibe, brüniert, 0,06 mm dick washer, burnished, 0.06 mm thick	1
15-12.05-11/3	Scheibe, brüniert, 0,2 mm dick washer, burnished, 0.2 mm thick	1
15-12.05-11/5	Scheibe, brüniert, 0,1 mm dick washer, burnished, 0.1 mm thick	1

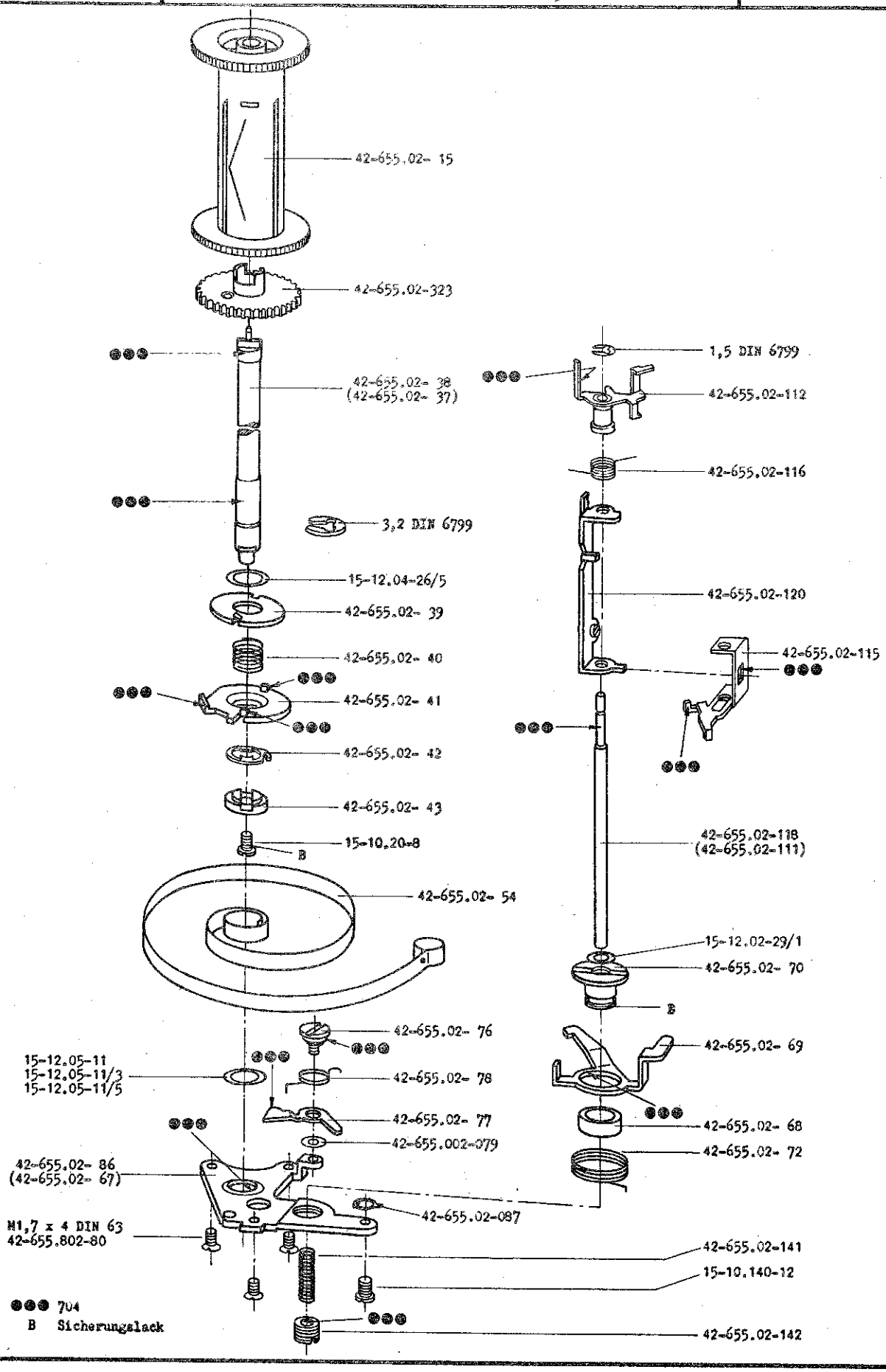
TECHNISCHER KUNDENDIENST

LEICAFLEX

Ausgangszustand ... Zustand 3
original state ... state 3

Leitz WETZLAR

Bestell-Nr Part-No	Benennung Description	LEICAFLEX
42-655.02- 15	Filmspule spool	1
42-655.02- 37	Aufzugachse, kompl. winding spindle, compl.	1
42-655.02- 38	Aufzugachse winding spindle	1
42-655.02- 39	Kupplungsscheibe coupling disk	1
42-655.02- 40	Druckfeder spring	1
42-655.02- 41	Aufzugtopf winding cup wheel	1
42-655.02- 42	Mitnehmer clatch	1
42-655.02- 43	Kupplung coupling disk	1
42-655.02- 54	Rückholfeder return spring	1
42-655.02- 67	Platine, vollst. bearing plate, compl.	1
42-655.02- 68	Ring ring	1
42-655.02- 69	Hebel lever	1
42-655.02- 70	Lagerbuchse bearing bush	1
42-655.02- 72	Feder spring	1
42-655.02- 76	Ansatzschraube shoulder screw	1
42-655.02- 77	Sperrhebel locking lever	1
42-655.02- 78	Schenkelfeder spring	1
42-655.002-079	Scheibe 0,3 mm dick washer 0.3 mm thick	1
42-655.02- 86	Platine bearing plate	1
42-655.002-087	Anschlagscheibe stop washer	1
42-655.02-111	Auslöseachse, kompl. release spindle, compl.	1
42-655.02-112	Auslösehebel release lever	1
42-655.02-115	Sperrklinke locking latch	1
42-655.02-116	Schenkelfeder spring	1
42-655.02-118	Auslösestange release spindle	1
42-655.02-120	Schieber slider	1
42-655.02-141	Druckfeder spring	1
42-655.02-142	Gewindestück threaded coupling	1


42-655.02- 15
42-655.02-323
42-655.02- 38
(42-655.02- 37)
3,2 DIN 6799
15-12.04-26/5
42-655.02- 39
42-655.02- 40
42-655.02- 41
42-655.02- 42
42-655.02- 43
15-10.20-8
B
42-655.02- 54
15-12.05-11
15-12.05-11/3
15-12.05-11/5
42-655.02- 76
42-655.02- 78
42-655.02- 77
42-655.002-079
42-655.02- 86
(42-655.02- 67)
M1,7 x 4 DIN 63
42-655.802-80
42-655.02-087
42-655.02-141
15-10.140-12
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1,5 DIN 6799
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42-655.02-116
42-655.02-120
42-655.02-115
42-655.02-118
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15-12.02-29/1
42-655.02- 70
B
42-655.02- 69
42-655.02- 68
42-655.02- 72
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B Sicherungslack

Removal and replacement of the delayed-action mechanism and the setting knob (mirror control lever)

Sheets 5 and 6

Tools

1. Collet chuck	42-253.01-802 W2
2. Spanner	42-655.01 Z1 W34
3. Spanner	42-655.01-165 W5

Requirements

1. Atlas plastic adhesive 500
2. Atlas plastic admixture IV
3. Atlas thinner for adhesive 500

Procedure

Removal of the delayed-action mechanism.
Wind shutter, wind delayed-action mechanism.
Unscrew screw 42-655.01-167 (see spare-parts list, Sheet 3.1) with collet chuck 42-253.01-802 W2. Remove lever and unscrew cover ring with spanner 42-655.01-165 W5.

Attention

The shutter must not be released, as this causes the delayed-action mechanism to unwind.
Remove leather covering and the cover of the delayed-action mechanism. Check correct seating of the coupling 42-655.01-169 (see spare-parts list, Sheet 3.1). Position and screw home lever. Unscrew three screws 15-10.174-6 (see Fig. 3.1) and remove the delayed-action mechanism from the housing.

Removal of the setting knob.
Set setting knob at about 30° to the vertical, pointing downwards towards the left; gently lever it out with spanner 42-655.01 Z1 W34. Take care that ball and spring do not jump off.

Replacement of the delayed-action mechanism.
The shutter is wound, delayed-action mechanism is wound. Push lever A, shown deep black in Fig. 3.1, against the upper stop.
Insert the delayed-action mechanism into the housing, and screw in with three screws 15-10.174-6.
Depress release button.

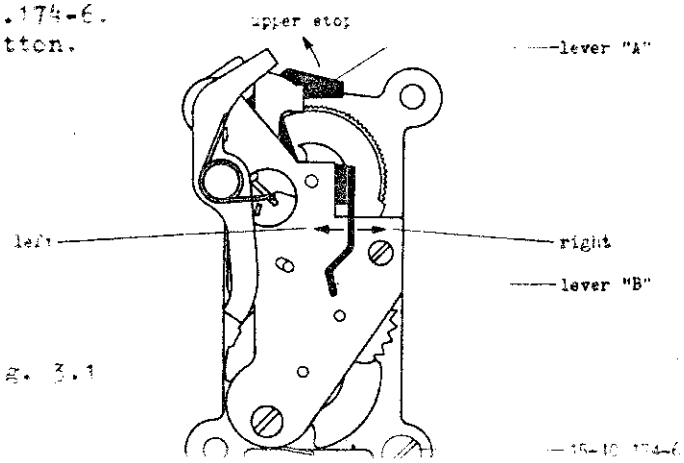


Fig. 3.1

TECHNISCHER KUNDENDIENST

Bestell-Nr Part-No	Benennung Description	LEICAFLEX
1,5 DIN 6799	Sicherungsscheibe C-clip	1
3,2 DIN 6799	Sicherungsscheibe C-clip	1
15-10.140-12	Schraube, brüniert screw, burnished	1
15-10.20 - 8	Schraube, brüniert screw, burnished	1
15-12.04-26/5	Unterlegscheibe 0,3 mm dick washer 0.3 mm thick	1
15-12.05-11	Scheibe, brüniert, 0,06 mm dick washer, burnished, 0.06 mm thick	1
15-12.05-11/3	Scheibe, brüniert, 0,2 mm dick washer, burnished, 0.2 mm thick	1
15-12.05-11/5	Scheibe, burnished, 0,1 mm dick washer, burnished, 0.1 mm thick	1

TECHNISCHER KUNDENDIENST

LEICAFLEX

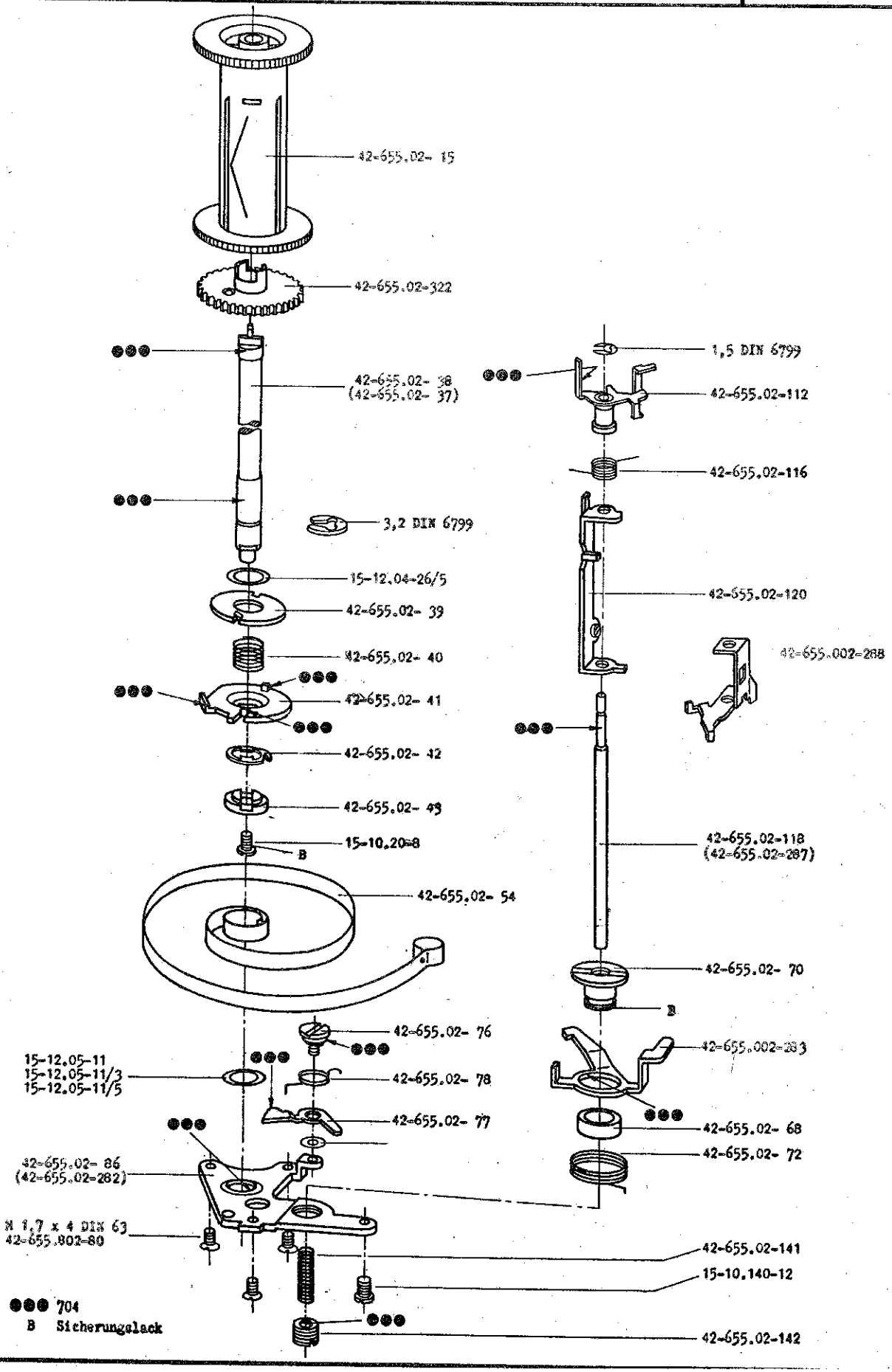
Zustand 4 ... / state 4 ...

Leitz WETZLAR

Bestell-Nr / Part-No	Benennung / Description	LEICAFLEX
42-655.02- 15	Filmspule / spool	1
42-655.02- 37	Aufzugachse, kompl. / winding spindle, compl.	1
42-655.02- 38	Aufzugachse / winding spindle	1
42-655.02- 39	Kupplungsscheibe / coupling disk	1
42-655.02- 40	Druckfeder / spring	1
42-655.02- 41	Aufzugtopf / winding cup wheel	1
42-655.02- 42	Mitnehmer / clatch	1
42-655.02- 43	Kupplung / coupling disk	1
42-655.02- 54	Rückholfeder / return spring	1
42-655.02- 68	Ring / ring	1
42-655.02- 70	Lagerbuchse / bearing bush	1
42-655.02- 72	Feder / spring	1
42-655.02- 76	Ansatzschraube / shoulder screw	1
42-655.02- 77	Sperrhebel / locking lever	1
42-655.02- 78	Schenkelfeder / spring	1
42-655.002-079	Scheibe 0,3 mm dick / washer 0.3 mm thick	1
42-655.02- 86	Platine / bearing plate	1
42-655.02-112	Auslösehebel / release lever	1
42-655.02-116	Schenkelfeder / spring	1
42-655.02-118	Auslösestange / release spindle	1
42-655.02-120	Schieber / slider	1
42-655.02-141	Druckfeder / spring	1
42-655.02-142	Gewindestück / threaded coupling	1
42-655.02-282	Platine, vollst. / bearing plate, compl.	1
42-655.02-283	Hebel / lever	1
42-655.02-287	Auslöseachse, kompl. / release spindle, compl.	1
42-655.02-288	Sperrklinke / locking latch	1
42-655.02-322	Sperrad, kompl. / locking gear, compl	1
42-655.802-80	Senkschraube, brüniert, M2, bei Bedarf / countersunk screw, burnished, M2, when needed	3
M1,7 x 4 DIN 63	Senkschraube, brüniert, M 1,7 / countersunk screw, burnished, M 1.7	3

TECHNICAL SERVICE — TECHNISCHER KUNDENDIENST — 15. 3.1968

TECHNISCHER KUNDENDIENST
TECHNICAL SERVICE
15. 3.1968



LEICAFLEX

Ausgangszustand ... Zustand 2
original state ... state 2

Leitz WETZLAR

Bestell-Nr Part-No	Benennung Description	LEICAFLEX
42-655.01-144	Dichtung pading	2
42-655.01-233	Schraube M 1,7 screw M 1.7	1
42-655.02- 5	Gehäuse housing	1
42-655.02- 11	Aufhängeöse eyelet	2
42-655.02- 50	Befestigungswinkel angle bracket	1
42-655.02- 62	Schraube, brüniert, M 1,7 screw, burnished, M 1.7	1
42-655.02- 92	Filmtransportachse (nur bis Zustand 1, für Zustand 2 42-655.02-277 verwenden) film carrier spindle (up to state 1 only, from state 2 onwards use 42-655.02-277)	
42-655.02- 97	Zwischenlager intermediate bearing	1
42-655.02- 99	Filmtransportwalze sprocket wheel	1
42-655.02-100	Zahnrad gear	1
42-655.02-101	Buchse bush	1
42-655.02-102	Zahnrad gear	1
42-655.02-104	Rücklaufsperre reversal ratchet	1
42-655.02-105	Mutter nut	1
42-655.02-106	Druckfeder spring	1
42-655.02-107	Kegelmutter (nur bis Zustand 1, für Zustand 2 42-655.02-281 verwenden) cone nut (up to state 1 only, from state 2 onwards use 42-655.02-281)	1
42-655.02-272	Rastring arresting ring	1
42-655.02-273	Gewindebuchse threaded bush	1
42-655.02-277	Filmtransportachse film carrier spindle	1
42-655.801- 14	Ansatzschraube M2, bei Bedarf shoulder screw M2, when needed	1
42-655.801-233	Schraube M2, bei Bedarf screw M2, when needed	1
42-655.802- 62	Schraube, brüniert, M2, bei Bedarf screw, burnished, M2, when needed	1
42-755.01-169	Ansatzschraube M 1,7 shoulder screw M 1.7	1
M1,7 x 2 DIN 553	Gewindestift, brüniert grub screw, burnished	1
15-10.144-12	Senkschraube, brüniert countersunk screw, burnished	1
15-12.01-11/2	Scheibe 0,2 mm dick washer 0.2 mm thick	1
15-12.01-11/6	Scheibe 0,1 mm dick washer 0.1 mm thick	1
15-12.04-16/2	Scheibe 0,2 mm dick / washer 0.2 mm thick	1
15-12.06-41/1	Federscheibe 0,1 mm dick spring washer 0.1 mm thick	1
15-12.08-30/1	Federscheibe 0,1 mm dick spring washer 0.1 mm thick	1

TECHNICAL SERVICE
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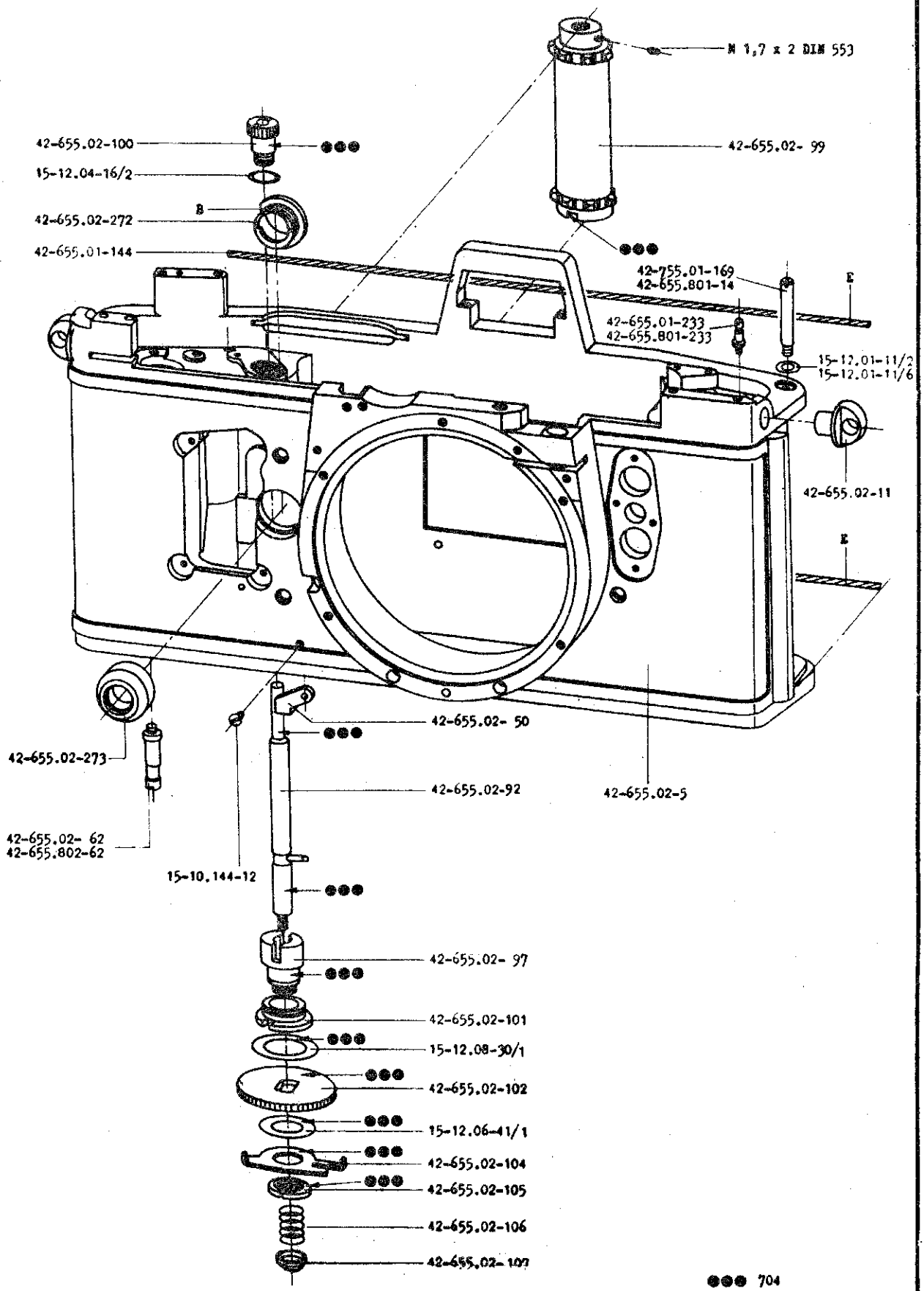
15. 3.1968



●●● 704
B Sicherungslack
E Kleber EC 680

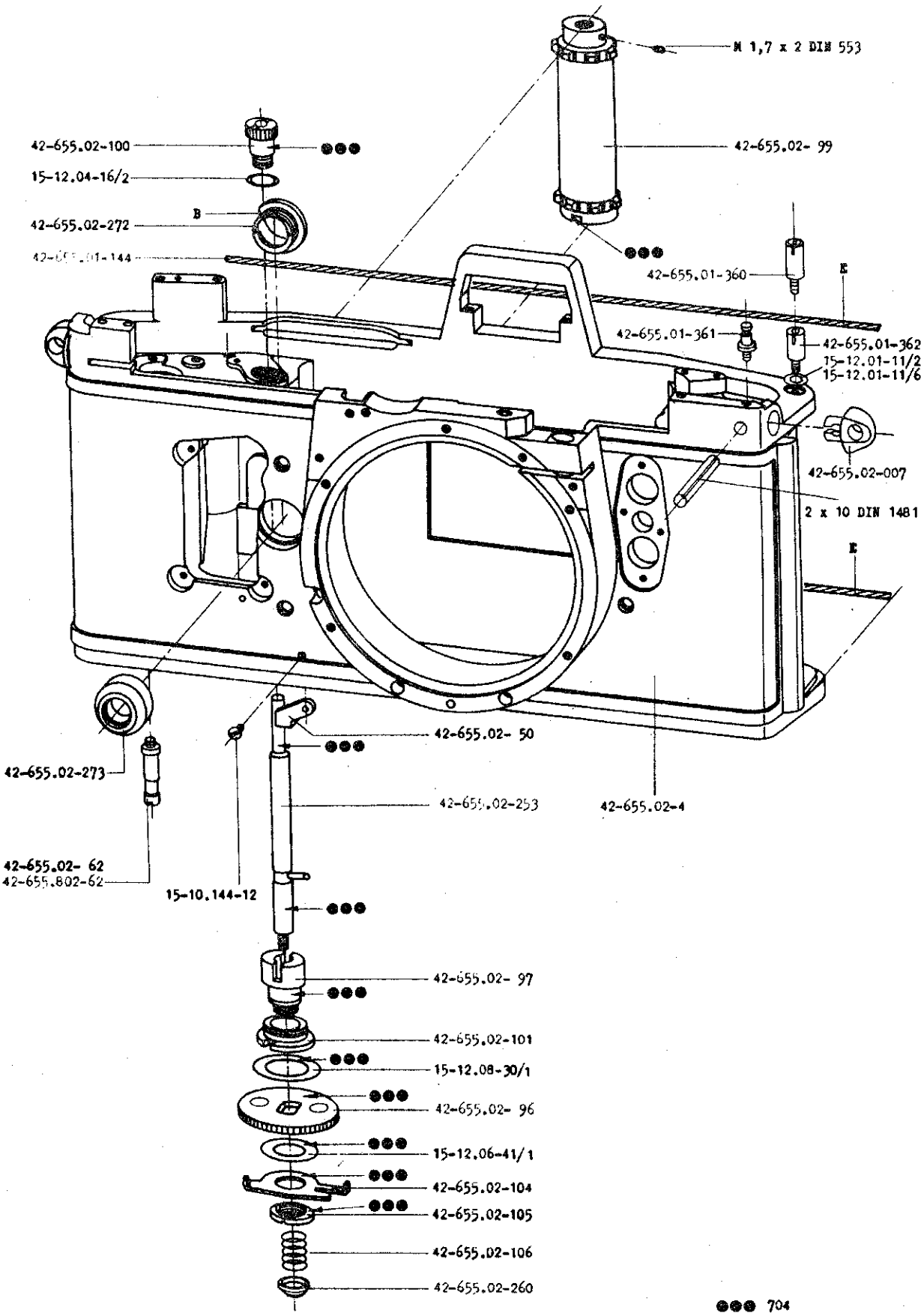
LEICAFLEX

Zustand 3 ... / state 3 ...

Leitz WETZLAR

Bestell-Nr / Art.-No	Benennung / Description	LEICAFLEX
42-655.01-144	Dichtung / pading	2
42-655.01-360	Schraube / screw	1
42-655.01-361	Ansatzschraube / screw	1
42-655.01-362	Schraube / screw	1
42-655.02- 4	Gehäuse / housing	1
42-655.02-007	Aufhängeöse / eyelet	2
42-655.02- 50	Befestigungswinkel / angle bracket	1
42-655.02- 62	Schraube / screw	1
42-655.02- 96	Zahnrad / gear	1
42-655.02- 97	Zwischenlager / intermediate bearing	1
42-655.02- 99	Filmtransportwalze / sprocket wheel	1
42-655.02-100	Zahnrad / gear	1
42-655.02-101	Buchse / bush	1
42-655.02-104	Rücklaufsperre / reversal ratchet	1
42-655.02-105	Mutter / nut	1
42-655.02-106	Druckfeder / spring	1
42-655.02-253	Filmtransportachse / film carrier spindle	1
42-655.02-260	Kegelmutter / cone nut	1
42-655.02-272	Rastring / arresting ring	1
42-655.02-273	Gewindebuchse / threaded bush	1
52-655.802- 62	Schraube, brüniert, M2, bei Bedarf / screw, burnished, M2, when needed	1
M1,7 x 2 DIN 553	Gewindestift, brüniert / grub screw, burnished	1
2 x 10 DIN 1481	Spannstift / pressure pin	2
15-10.144-12	Senkschraube, brüniert / countersunk screw, burnished	1
15-12.01-11/2	Scheibe 0,2 mm dick / washer 0.2 mm thick	1
15-12.01-11/6	Scheibe 0,1 mm dick / washer 0.1 mm thick	1
15-12.04-16/2	Scheibe 0,2 mm dick / washer 0.2 mm thick	1
15-12.06-41/1	Federscheibe 0,1 mm dick / spring washer 0.1 mm thick	1

TECHNISCHER KUNDENDIENST
TECHNICAL SERVICE
15. 3.1968



●●● 704
B Sicherungslack
E Kleber EC 880

Removal and replacement of the delayed-action mechanism and the setting knob (mirror control lever)

Continuation of Sheet 5

Function: Delayed-action mechanism runs down until shortly before the lever reaches its end position.
The shutter is released.
The release button jumps up.
The delayed-action mechanism stops.
The delayed-action mechanism runs for 6 - 9 seconds before shutter release.

When the delayed-action mechanism is wound, and the shutter unwound, the delayed-action mechanism must not start when the release button is pressed. The same applies when the shutter is half wound.
Corrections can be made by bending the lever "B" shown in Fig. 3.1. If the delayed-action mechanism is released too early, bend the lever towards the right, when it is released too late, bend the lever to the left.

Wind shutter, wind delayed-action mechanism. Unscrew screw 42-655.01-167, remove lever, insert cover. Apply Atlas Plastic Adhesive 500 to housing and leather covering. Allow to dry briefly before cementing.
Mount cover ring, screw on lever with screw 42-655.01-167.

Replacement of the setting knob
Push setting knob in 90° position to the vertical into the bush as far as the bore. Insert spring in bore, place the ball on it and push it into the bore by means of a brass pin. Insert the setting knob fully into the bush.

TECHNISCHER KUNDENDIENST

Adjusting the photo-resistor

Sheet 7

Tools

1. Table stand	42-253.01 Z1 W 7
2. Camera holder	42-253.01 Z1 W 9
3. Graticule housing 1 m	42-253.01 Z1 W63
4. Graticule	42-700.01 Z1 W20

Attention: For this purpose the 1 m adjustment stand must be modified (see sheets 8.1 and 9.1).

Procedure

The cover and back are removed (see Repair Instructions, Sheets 1 - 3). Screw the retaining ring 42-655.01-295 (see Spare Parts List, Sheet 1.1) into the photo-resistor, insert the mallory cell, and screw the cover on.

Insert a 9 cm lens in the LEICAFLEX and place the camera on the camera holder 42-253.01 Z1 W9.
Focus the lens on the 1 m graticule. Align the solid formatframe of the 1 m graticule in the camera viewfinder. For this purpose the camera holder can be adjusted vertically and horizontally by means of two knurled screws on its right.
Slowly move the metal baffle upwards by pulling the Perlon cord and observe the measuring pointer through the viewfinder. As soon as it begins to move, steady the Perlon cord with the metal baffle and read off the value visible on the scale along the upper edge of the metal.
Pull the metal baffle fully upwards, then move it slowly downwards. As soon as the measuring pointer begins to move, steady the Perlon cord with the metal baffle and read off the value on the scale visible along the lower edge of the baffle.
Add the two values obtained; the result must be between 15 and 18.

Example:

1. Lower scale value 8
   upper scale value 8 right
   16

2. Lower scale value 9
   upper scale value 8 right
   17

The upper scale value should not be larger than the lower; it can be smaller.

Example:

Lower scale value 8
upper scale value 9 wrong
17

In addition, the values must always lie between 7 ½ and 9 on the scale. If the values are too far down on the scale e.g. lower scale value 10, upper scale value 6, the photo-resistor 42-655.01-276 (see Spare Parts List, Sheet 4.1) must be slightly pressed into the assembly.
If the values are too far up, e.g. lower scale value 6, upper scale value 10, the photo-resistor must be slightly pulled out of the assembly.

TECHNISCHER KUNDENDIENST

TECHNISCHER KUNDENDIENST

Modification of the 1 m adjustment stand

Sheets 8 and 9

Camera holder 42-253.01 Z1 W9.
File the holding bracket of the camera holder so that the LEICAFLEX with lens can be mounted (see Fig. 4.1).
Raise the groundglass of the camera holder by means of 1 mm spacers.

Change the two Vinidur plates (checks) according to the dimensions on Fig. 4.1.

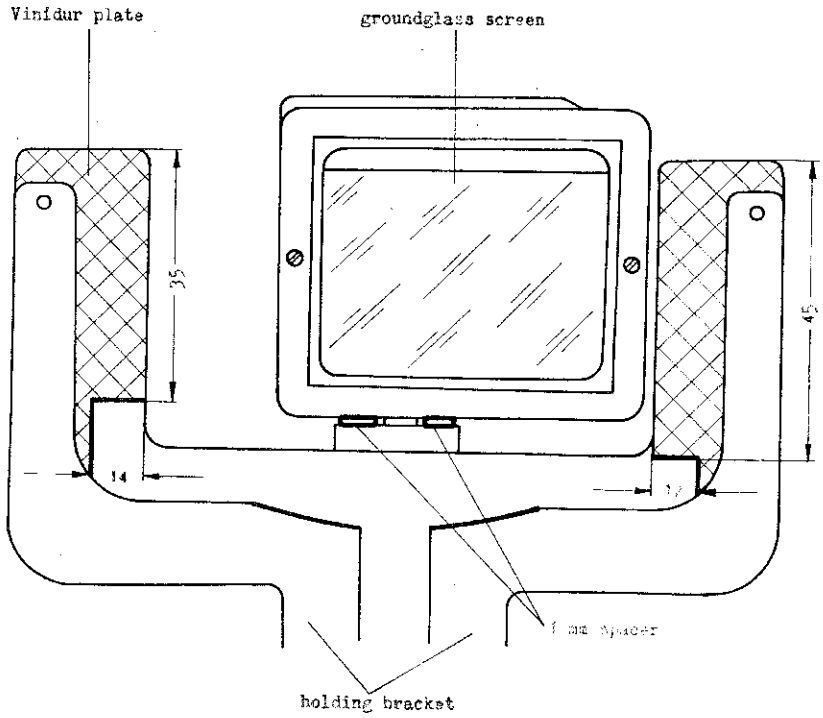


Fig. 4.1

20. 7.66

1 m light box (see Fig. 5.1).
Mount one bracket on the groundglass screen housing so that the bore on the top is located above the centre of the groundglass screen housing.

Suspend a matt-black varnished metal baffle 60 x 500 x 1 mm from a thin Perlon cord so that it is horizontal and can easily be raised and lowered from the camera holder above the screwed-down bracket. Glue the number scale provided by us on the groundglass screen so that its 0-point is located 3.5 mm above the bottom horizontal line of the groundglass screen.

Modification of the 1 m adjustment stand

Continuation of sheet 8

Glue a grid scale, also supplied by us, on the right between the vertical solid and dotted line.

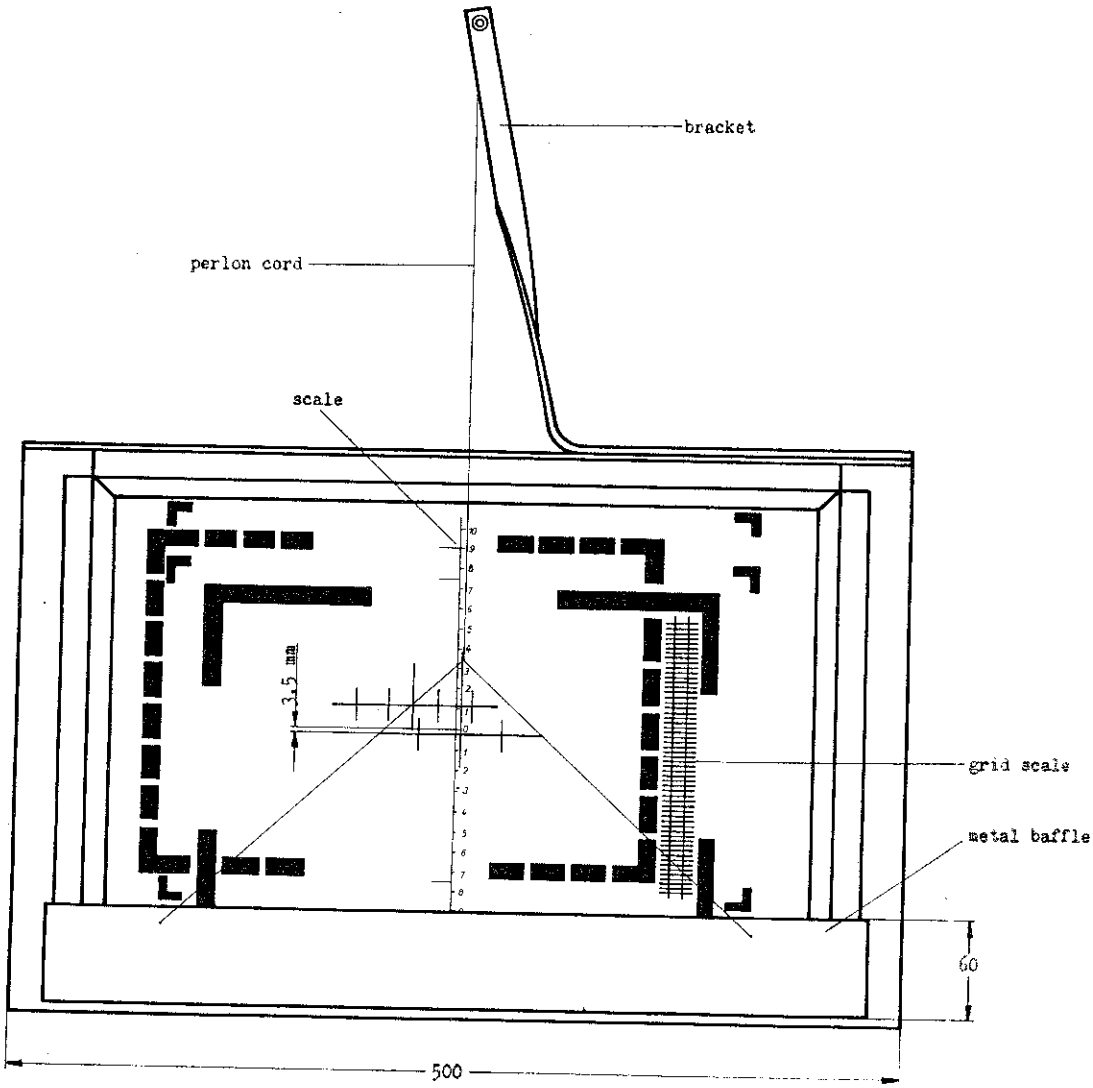


Fig. 5.1

TECHNISCHER KUNDENDIENST

20. 7.66

Determining the layer resistance

Sheet 10

Tools

1. Calibrating instrument	42-655.01 Z1 W22
2. Current supply	42-655.01 Z1 W22 U180*
3. Voltage stabilizer	KH 10

Procedure

The cover is removed (see sheets 1.1 and 2.1).
The shutter speed dial, the setting dial, and the eyecup are mounted.
The follow-pointer and measuring pointer are adjusted (see sheets 11.1 to 13.1).
Turn the contact lever on the current supply 42-655.01 Z1 W22 U180 downwards, place the current supply against the camera and hold it in position. Insert the plug for the current supply into the upper socket of the calibrating instrument 42-655.01 Z1 W22. Turn the potentiometer 42-655.01-390 (see Spare Parts List, sheet 4.3) to the midposition. Close the circuit by turning out the winding lever (readiness position). Look into the viewfinder of the camera and rotate the dial scale of the calibrating instrument until the measuring pointer settles on the bottom point (circle) of the fresnel lens.
(When the current supply 42-655.01 Z1 W22 U85 is used its red button must be depressed.)
The value indicated on the dial scale corresponds to the value of the layer resistance to be soldered onto the photoresistor. The photo-resistor is soldered on in a vertical position, i.e. not as shown in Fig. 9.1.
Corrections can be carried out by rotating the potentiometer from the front of the photo-resistor, without effect on the balance (light value 2, 18, 15).

Test

Screw in switch pin 42-655.01-301 (see Spare Parts List, sheet 1.1) and insert the Mallory cell. Look into the viewfinder and depress the switch pin.
The measuring pointer should settle on the bottom point of the fresnel lens.
Open the circuit by folding back the winding lever (rest position). The pointer of the calibrating unit 42-655.01 Z1 W22 must not be deflected, i.e. no current must be taken up.
Wind shutter, check short circuit.

TECHNISCHER KUNDENDIENST

*The current supply 42-655.01 Z1 W22 U85 can also be used.

Determining the layer resistance

Sheet 10

Tools

1. Calibrating instrument	42-655.01 Z1 W22
2. Current supply	42-655.01 Z1 W22 U180*
3. Voltage stabilizier	KH 10

Procedure

The cover is removed (see sheets 1.1 and 2.1).
The shutter speed dial, the setting dial, and the eyecup are mounted.
The follow-pointer and measuring pointer are adjusted (see sheets 11.1 to 13.1).
Turn the contact lever on the current supply 42-655.01 Z1 W22 U180 downwards, place the current supply against the camera and hold it in position. Insert the plug for the current supply into the upper socket of the calibrating instrument 42-655.01 Z1 W22. The variable layer resistance on the side of the photocell has a range of Ω to 5 kΩ. Estimate the Ohm value from the position of the collector, and insert an appropriate resistance (series resistance) instead of the bridge into the clamps on the top of the calibrating unit 42-655.01 Z1 W22. Look into the viewfinder of the camera and rotate the dial scale of the calibrating instrument until the measuring pointer settles on the bottom point (circle) of the fresnel lens.
(When the current supply 42-655.01 Z1 W22 U85 is used its red button must be depressed.)
If during the setting of 65 Ohm on the dividing circle of the calibrating unit the pointer is not deflected as far as the circle, the series resistance must be reduced e.g. from 1.6 Ω to 1.2 Ω. If during a setting of 510 Ohm the pointer is deflected beyond the circle, the series resistance must be increased.
The value indicated on the dial scale corresponds to the value of the layer resistance to be soldered onto the photoresistor. This layer resistance must be soldered on to the photoresistor together with the series resistance inserted between the clamps of the calibrating unit (see Spaee Parts List, sheet 4.2).

Test

Screw in switch pin 42-655.01-301 (see Spare Parts List, sheet 1.1) and insert the Mallory cell. Look into the viewfinder and depress the switch pin.
The measuring pointer should settle on the bottom point of the Fresnel lens.

TECHNISCHER KUNDENDIENST

*The current supply 42-655.01 Z1 W22 U85 can also be used.

Determining the layer resistance

Sheet 10

Tools

1. Calibrating instrument	42-655.01 Z1 W22
2. Current supply	42-655.01 Z1 W22 U180*
3. Voltage stabilizer	KH 10

Procedure

The cover is removed (see sheets 1.1 and 2.1).
The shutter speed dial, the setting dial, and the eyecup are mounted.
The follow-pointer and measuring pointer are adjusted (see sheets 11.1 to 13.1).
Turn the contact lever on the current supply 42-655.01 Z1 W22 U180 downwards, place the current supply against the camera and hold it in position. Insert the plug for the current supply into the upper socket of the calibrating instrument 42-655.01 Z1 W22. Look into the viewfinder of the camera and rotate the dial scale of the calibrating instrument until the measuring pointer settles on the bottom point (circle) of the fresnel lens.

(When the current supply 42-655.01 Z1 W22 U85 is used its red button must be depressed.)
The value indicated on the dial scale corresponds to the value of the layer resistance to be soldered onto the photoresistor (see Fig. 9.1).

Test

Screw in switch pin 42-655.01-301 (see Spare Parts List, Sheet 1.1) and insert the Mallory cell. Look into the viewfinder and depress the switch pin.
The measuring pointer should settle on the bottom point of the Fresnel lens.

TECHNISCHER KUNDENDIENST

*The current supply 42-655.01 Z1 W22 U85 can also be used.

Adjusting the follow pointer and measuring pointer

Sheets 11 and 12

Tools

1. Measuring lamp	42-655.01 Z1 W 7
2. Exposure meter	42-655.01 Z1 W10
3. Calibrating instrument	42-655.01 Z1 W22
4. Current supply	42-655.01 Z1 W22 U180*
5. Adjusting pin	42-655.01 Z1 W26
6. Key	42-655.01-29 W 8
7. Transformer	REROW
8. Voltage stabilizer	KH 10

Procedure

The cover is removed (see sheets 1.1 and 2.1).
The shutter speed dial, the setting dial, and the eyecup are mounted. The setting of the lift of the diaphragm control lever, DIN cam, and shutter speed setting lever is tested (see sheets 18 and 19).

Turn the contact lever on the current supply 42-655.01 Z1 W22 U180 upwards, place the current supply against the camera and lock the camera in the bayonet of the measuring lamp 42-655.01 Z1 W7. Insert the plug of the current supply in the upper socket of the calibrating instrument 42-655.01 Z1 W22 (The current supply 42-655.01 Z1 W22 U135 is inserted in the bottom right-hand socket of the calibrating instrument).

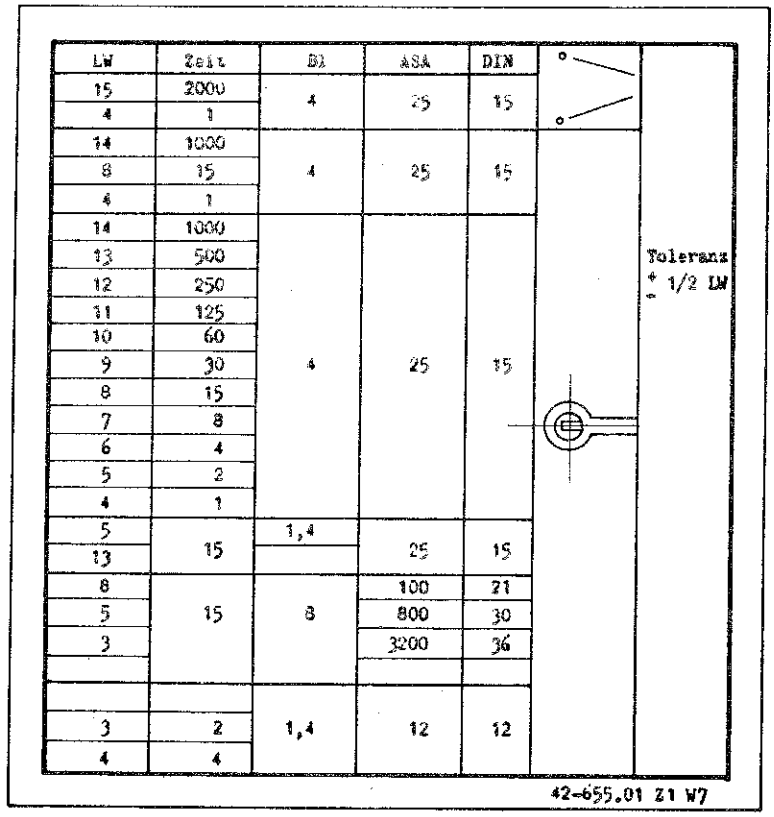


Fig. 6.1

*The current supply 42-655.01 Z1 W22 U135 can also be used.

TECHNISCHER KUNDENDIENST

Adjusting the follow pointer and measuring pointer

Continuation of sheet 11

Push the 8 v illuminating device onto the eyecup of the camera, and insert the plug in the transformer. Depress button 15 of the measuring lamp. Set the shutter speed dial at 1/2000 sec., the click stop on the measuring lamp in front of the camera at f 4, and the setting knob at 25 ASA/15 DIN. Release the DIN -cam with the key 42-655.01-29 W8.

The two dots (previously circles) of the Fresnel lens and the follow pointer will become visible on the groundglass screen of the exposure meter. Rotate the DIN cam, so that the follow pointer points at the lower point (circle). Alternately check the slits (LW 14, 8 and 4) boldly drawn in Fig. 6.1. Measuring pointer and follow pointer must coincide in all positions. A correction of the light value 14 can be achieved by rotating the right-hand rotating layer resistance (see Fig. 9.1); the light value 8 can be adjusted by rotating the left-hand rotating layer resistance.

In order to correct the light value 4, the screw 42-655.09-39 must be unscrewed from the cassette chamber, and the fork inside the exposure meter adjusted by pulling or pushing with the aid of the adjusting pin 42-655.01 Z1 W26.

Check all other values with the chart shown on Fig. 6.1. If all or most of the measuring results deviate in one direction, all the values can be displaced by a slight alteration of the previous adjustment of the light values 14, 8 and 4. Deviations of up to half a light value are permissible.

The two rotating layer resistances must be protected against changes by means of protective varnish.

TECHNISCHER KUNDENDIENST

Adjusting the follow pointer and measuring pointer

Continuation of sheet 11

Push the 8 v illuminating device onto the eyecup of the camera, and insert the plug in the transformer. Depress button 15 of the measuring lamp. Set the shutter speed dial at 1/2000 sec., the click stop on the measuring lamp in front of the camera at f 4, and the setting knob at 25 ASA/15 DIN. Release the DIN-cam with the key 42-655.01-29 W8.

The two dots (previously circles) of the Fresnel lens and the follow pointer will become visible on the groundglass screen of the exposure meter. Rotate the DIN-cam, so that the follow pointer points at the lower point (circle). Alternately check the slits (LW 14, 8 and 4) boldly drawn in Fig. 6.1. Measuring pointer and follow pointer must coincide in all positions. A correction of the light value 14 can be achieved by rotating the layer resistance R 3 (see Fig. 8.2); the light value 8 can be corrected by rotating the layer resistance R4.
In order to correct the light value 4, the screw 42-655.09-39 must be unscrewed from the cassette chamber, and the fork inside the exposure meter adjusted by pulling or pushing with the aid of the adjusting pin 42-655.01 Z1 W26.
Check all other values with the chart shown on Fig. 6.1. If all or most of the measuring results deviate in one direction, all the values can be displaced by a slight alteration of the previous adjustment of the light values 14, 8 and 4. Deviations of up to half a light value are permissible.

Minor corrections on a completely assembled camera can be carried out with the aid of an insulated screwdriver 42-655.01 Z1 W93 after removal of the rewind knob and the washer 42-655.001-018 (see Spare Parts List, sheet 1.2).

TECHNISCHER KUNDENDIENST

Adjusting the measuring pointer to the follow pointer

Sheet 13

Procedure

The cover and the pentaprism are removed (see Repair Instructions, Sheets 1 and 2).
Insert the Mallory cell and the setting knob with the DIN cam. Make the measuring pointer and the follow pointer coincide. The DIN cam must still function in both directions, i.e. the DIN cam must not engage either at the highest or at the lowest point of its circumference.
When the pointers coincide they must be parallel to each other. The end of the measuring pointer must be visible in the eye of the follow pointer (see Fig. 7.1).

Fig. 7.1

Corrections are carried out on the follow pointer by means of forceps.

Important

The pointers must move freely against each other, and must not scrape against the prism holder or prism.

TECHNISCHER KUNDENDIENST

Adjusting the exposure meter and positioning the follow pointer

Sheets 14 to 16

Tools

1.	Measuring lamp	42-655.01 Z1 W 7
2.	Exposure meter	42-655.01 Z1 W10
3.	Balancing gauge	42-655.01 Z1 A19
4.	Calibrating device	42-655.01 Z1 W22
5.	Current supply	42-655.01 Z1 W22 U180*
6.	Assembly weight	42-655.01 Z1 W22 U200*
7.	Adjusting pin	42-655.01 Z1 W26
8.	Key	42-655.09-29 W 2
9.	Transformer	REROW
10.	Voltage stabilizer	KH 10

Procedure

The cover and camera back are removed (see Repair Instructions Sheets 1 to 3).

Instructions for calibrating the measuring lamp 42-655.01 Z1 W7 see M2-folder, Calibrating Instructions for Test Instruments Sheets 12 to 14.
Unscrew the nut 42-655.09-29 (see Spare Parts List, Sheet 6.1) on the exposure meter with key 42-655.09-29 W2. Remove spring 42-655.09-27 and pointer 42-655.09-23.
Unsolder the layer resistance (see Fig. 9.1) and remove the pentaprism.
Turn up the contact lever on the current supply 42-655.01 Z1 W22 U180 upwards, place the current supply against the camera, and lock the camera in the bayonet mount of the measuring lamp 42-655.01 Z1 W7.
Insert the plug of the current supply into the upper socket of the calibrating device 42-655.01 Z1 W22. Place the assembly weight 42-655.01 Z1 W22 U200 on the spacer 42-655.01-213 (see Spare Parts List, Sheet 5.1) instead of the pentaprism, and screw the balancing gauge 42-655.01 Z1 A19 onto the threaded bolt of the exposure meter, so that the scale is located above the Fresnel lens, and the bore above the bearing 42-655.01-21 (see Spare Parts List, Sheet 7.1).
Switch on the 6 v lamp in the measuring lamp above the camera and set the click stop in front of the camera at 5.6.

Unscrew a screw M 1.7 x 3 DIN 84 and a screw M 1.7 x 3 DIN 120 19 and adjust the exposure meter so that the marking lines of the template are in register with the markings of the Fresnel lens (see Fig. 8.1).
Press button 8 of the measuring lamp - the pointer must point precisely at light value 8, i.e. at the centre of the scale. If necessary the pointer must be adjusted on the left-hand rotating layer resistance of the photo-resistor (see Fig. 9.1).
Press button 15 - the pointer must point precisely at light value 15, i.e. in the lower cutout of the scale. If necessary the pointer must be adjusted on the right-hand rotating layer resistance of the photo-resistor (see Fig. 9.1). This adjustment must be checked alternately with light values 8 and 15 and readjusted until both values are in agreement. Press button 2, i.e. in in the upper cutout of the scale.

* The current supply "zu 42-655.01 Z1 W22" can also be used. Here, the pentaprism need not be removed.

TECHNISCHER KUNDENDIENST

Adjusting the exposure meter and positioning the follow pointer

Sheets 14 to 16

Tools

1.	Measuring lamp	42-655.01 Z1 W 7
2.	Exposure meter	42-655.01 Z1 W10
3.	Balancing gauge	42-655.01 Z1 A19
4.	Calibrating device	42-655.01 Z1 W22
5.	Current supply	42-655.01 Z1 W22 U180
6.	Assembly weight	42-655.01 Z1 W22 U200
7.	Adjusting pin	42-655.01 Z1 W26
8.	Balancing resistance	42-655.01 Z1 W83
9.	Screw driver	42-655.01 Z1 W93
10.	Key	42-655.09-29 W 2
11.	Transformer	REROW
12.	Voltage stabilizer	KH 10

Procedure

The cover and camera back are removed (see Repair Instructions Sheets 1 to 3).

Instructions for calibrating the measuring lamp 42-655.01 Z1 W7 see M2-folder, Calibrating Instructions for Test Instruments Sheets 12 to 14.
Unscrew the nut 42-655.09-29 (see Spare Parts List, Sheet 6.1) on the exposure meter with key 42-655.09-29 W2. Remove spring 42-655.09-27 and pointer 42-655.09-23.
Unsolder the layer resistances of the printed circuit (see Fig. 8.2) and remove the pentaprism.
Turn up the contact lever on the current supply 42-655.01 Z1 W22 U180 upwards, place the current supply against the camera, and lock the camera in the bayonet mount of the measuring lamp 42-655.01 Z1 W7.

Insert the plug of the current supply into the upper socket of the calibrating device 42-655.01 Z1 W22. Place the assembly weight 42-655.01 Z1 W22 U200 on the spacer 42-655.01-213 (see Spare Parts List, sheet 5.1) instead of the pentaprism, and screw the balancing gauge 42-655.01 Z1 A19 onto the threaded bolt of the exposure meter, so that the scale is located above the Fresnel lens, and the bore above the bearing 42-655.01-21 (see Spare Parts List, Sheet 7.1).
Switch on the 6 v lamp in the measuring lamp above the camera and set the click stop in front of the camera at 5.6.

Unscrew a screw M 1.7 x 3 DIN 84 and a screw M 1.7 x 3 DIN 120 19 and adjust the exposure meter so that the marking lines of the template are in register with the markings of the Fresnel lens (see Fig. 8.1).
Insert the plug of the tool for the balancing resistance 42-655.01 Z1 W83 in the bottom right-hand socket of the calibrating unit 42-655.01 Z1 W22 and place the plug connection on the rewind bearing of the camera.
Rotate the two layer resistances of the printed circuit against the stop anticlockwise with the screwdrivers of the plug connection. The screwdrivers must remain in the slots of the layer resistances. Close the circuit by turning out the winding lever (readiness position).
Depress key 8 of the measuring strip - pointer must settle a little above the light value 8, i.e. above the middle of the scale. This is achieved by appropriate rotation of the resistance selector switch of the tool for the balancing resistor.

TECHNISCHER KUNDENDIENST

Adjusting the exposuremeter and positioning the follow pointer

Continuation of Sheet 14

If necessary, unscrew the screw 42-655.09-39 from the cassette chamber and adjust the fork in the exposure meter by pulling or pushing it with the aid of the adjusting pin 42-655.01 Z1 W26 so that the pointer points at light value 2.
Check and correct the light values 8,15, and 2 alternately until all three values are in agreement.

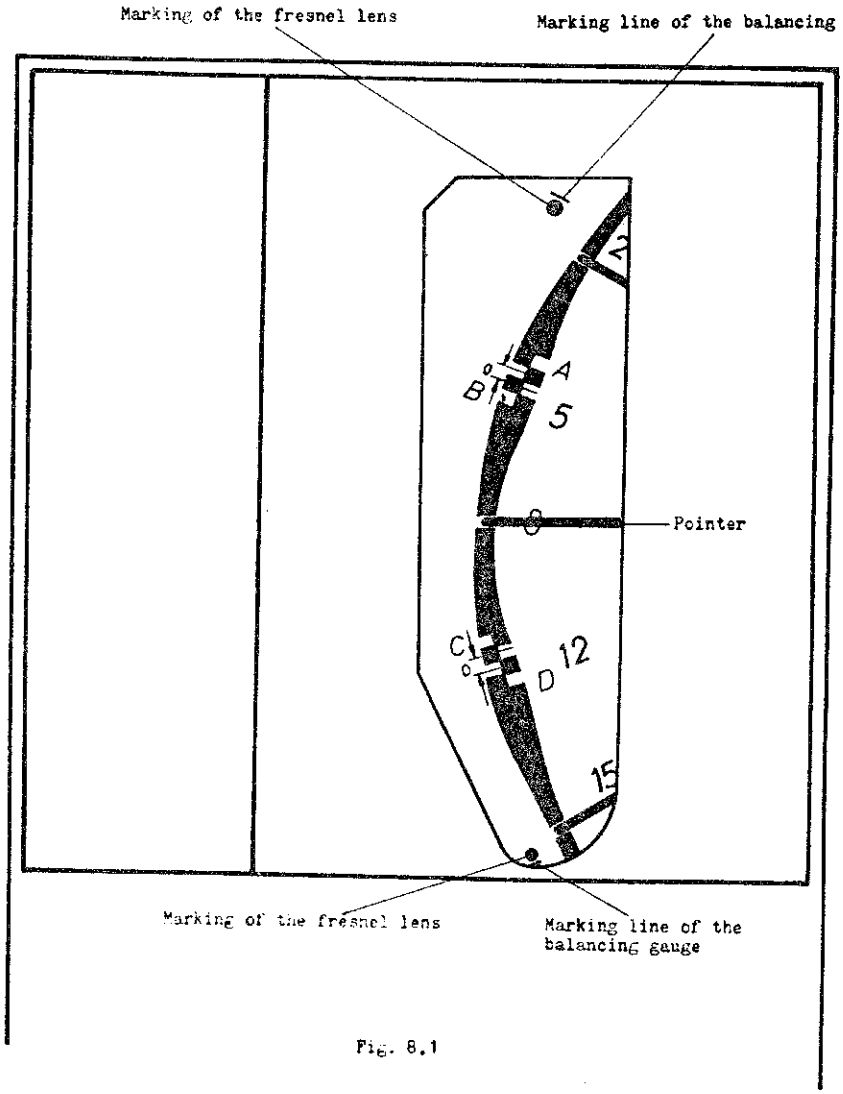


Fig. 8.1

5.12.67

Press buttons 5 and 12. Position the follow pointer from the position of the scale (see Fig. 8.1).

Example: Light value 5 = pointer position A
Light value 12 = pointer position between C and D = follow pointer A0

(see Spare Parts List, Sheet 6.1).

TECHNISCHER KUNDENDIENST

Adjusting the exposuremeter and positioning the follow pointer

Continuation of Sheet 14

Depress key 15 - pointer must settle slightly below the light value 15. This is achieved by appropriate rotation of the resistance selector switch R6. Check light values 8 and 15 alternatively.
Depress key 2 - pointer must settle on the light value 2, i.e. in the upper window of the scale.
If necessary, unscrew the screw 42-655.09-39 from the cassette chamber and adjust the fork in the exposure meter by pulling or pushing it with the aid of the adjusting pin 42-655.01 Z1 W26 so that the pointer points at light value 2.
Check the light values 8, 15 and 2 alternatively and correct until an approximate balance has been reached.
Depress key 8 and set the measuring pointer precisely at the light value 8 by rotating the layer resistance R4 (see Fig. 8.2).
Depress key 15 and set the measuring pointer precisely at the measuring value 15 by rotating the layer resistance R3.
Alternately check the light values-8 and 15 and correct until the pointer is deflected accurately.
Care must be taken for the layer resistances to be set with in the first third of the adjustment range; if necessary the resistance selector switch must be turned one step further.

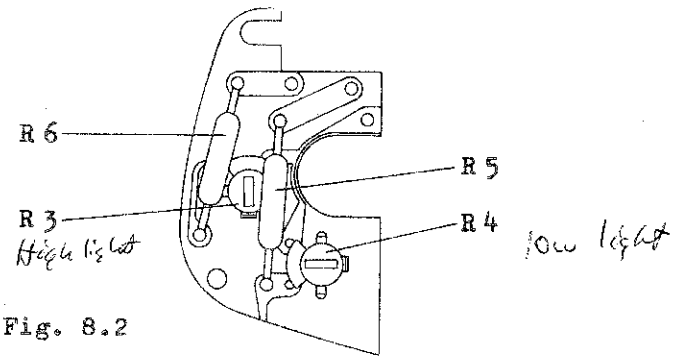


Fig. 8.2

Depress key 2, pointer must settle precisely on the light value 2, i.e. in the upper window of the scale.
Check the light values 2, 8, and 15 alternately and correct until pointer is deflected accurately (see Sheet 15.1, Fig. 8.1).
Remove the plug connection of the tool for the balancing resistance.
Solder in the layer resistances indicated on the resistance selector switches R5 and R6 (see Fig. 8.2).
Check the light values 2, 8, and 15, alternately correcting them if necessary until the pointer settles precisely on the markings.

5.12.67

Press buttons 5 and 12. Position the follow pointer from the position of the scale (see Fig. 8.1).

Example: Light value 5 = pointer position A
Light value 12 = pointer position between C and D = follow pointer A0
(see Spare Parts List, Sheet 6.1).

Minor corrections on a completely assembled camera can be carried out with the aid of an insulated screwdriver 42-655.01 Z1 W93 after removal of the rewind knob and the washer 42-655.001-018 (see Spare Parts List Sheet 1.2).

TECHNISCHER KUNDENDIENST

Adjusting the exposuremeter and positioning the follow pointer

Continuation of Sheet 15

Press button 15; the current pickup on the calibrating device 42-655.01 Z1 W22 must not exceed 0.65 mA.
If the current pickup is excessive, replace the aperture stop of the photo resistor by the next smaller one (see Fig. 9.1).
Check the light values 2,8 and 15 and correct if necessary.

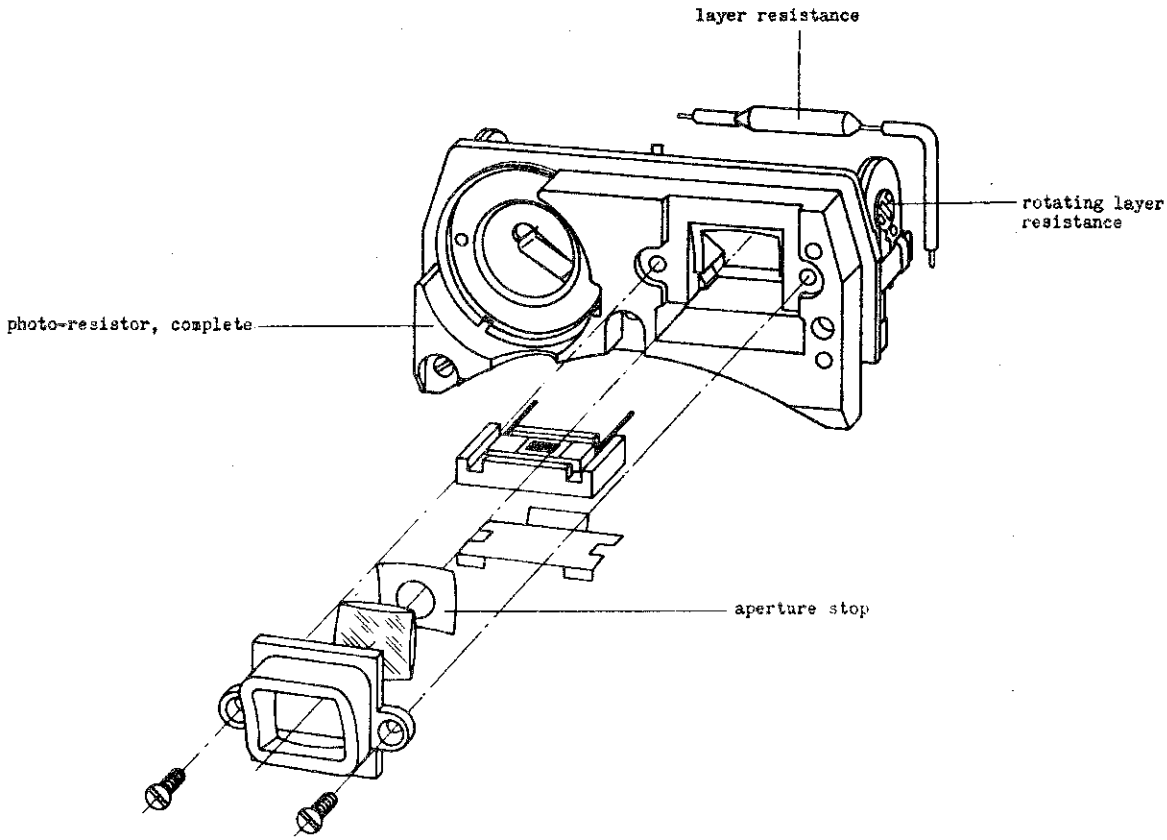


Fig. 9.1

TECHNISCHER KUNDENDIENST

5.12.67

Place the previously positioned follow pointer (e.g. A0) on the exposure meter, hook in the spring, and tighten the nut.
Screw in the screw from the cassette chamber.

Adjusting the fresnel lens

Sheet 17

Tools

1. Picture frequency and lens adjusting device 08-27.00 Z1 W14
2. Microscope for screen adjustment 42-655.01 Z1 W73

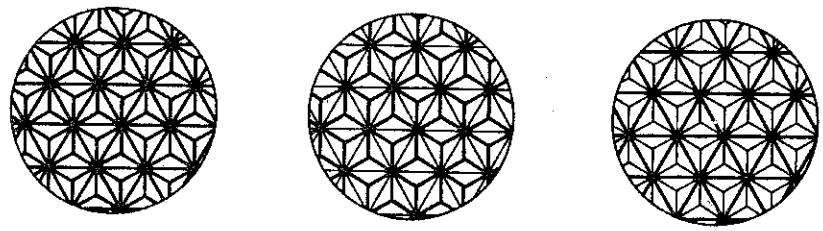
Procedure

Attention

Zeroing (see Sheet 4.1) and mirror adjustment (see Sheet 20.1) have been checked.
Screw the 250 mm objective belonging to the picture frequency and lens adjusting device into the lens mount.
Clamp the microscope for the screen adjustment to the rising wooden base of the picture frequency and lens adjusting device (see our offer of 25-11-65). Place the camera on the bayonet fitting. Push the 8 v illuminator which forms part of the balancing combination on the eyecup of the LEICAFLEX, and insert the plug in the transformer of the picture frequency and lens adjusting device.

Attention

The lens mount of the picture frequency and lens adjusting device must be precisely set at 0 and must not be disturbed.
Focus the crosslines in the eyepiece.
Adjust the eyepiece tube of the microscope so that all the lines visible in the eyepiece appear equally bold and sharp (see Fig. 10.1).



right wrong wrong

Abb. 10.1

The graduation on the microscope corresponds with a 0.01 mm scale unit. Deviations of ± 0.02 mm are permissible. If the measurement tends to be negative (-), thicker spacers, or more spacers of the same thickness (see Spare Parts List, Sheet 5.1) must be placed below the prism holder.
If the measurement tends to be positive (+), thinner spacers, or fewer spacers of the same thickness, must be placed below the prism holder.

TECHNISCHER KUNDENDIENST

Setting the mechanical lift for the diaphragm control lever, the DIN-cam, and the shutter speed setting lever

Sheet 18 and 19

Tools

1. Gauge	42-655.01 Z1 A15
2. Testing device	42-655.01 Z1 W46
3. Key	42-655.02-235 W5

Procedure

The cover and the baseplate are removed. Shutter speed dial and setting knob are in position (see Sheets 1 - 3).

Lock the gauge 42-655.01 Z1 A15 in the LEICAFLEX, place the camera on the baseplate of the testing device 42-655.01 Z1 W46 and clamp it with the toggle. Set the shutter speed dial at 1/15 sec., the setting knob at DIN 15, and the gauge 42-655.01 Z1 A15 at f/1.4. Switch on the lamp on the testing instrument and focus the mark on the eyepiece.
Centre the screw 15-10.121-8 (see Fig. 11.1) in the circle (see Fig. 12.1) by adjusting the baseplate of the testing device, with the eyepiece pushed to the top left. Focusing is carried out with the chromium-plated knurled knob on the right.

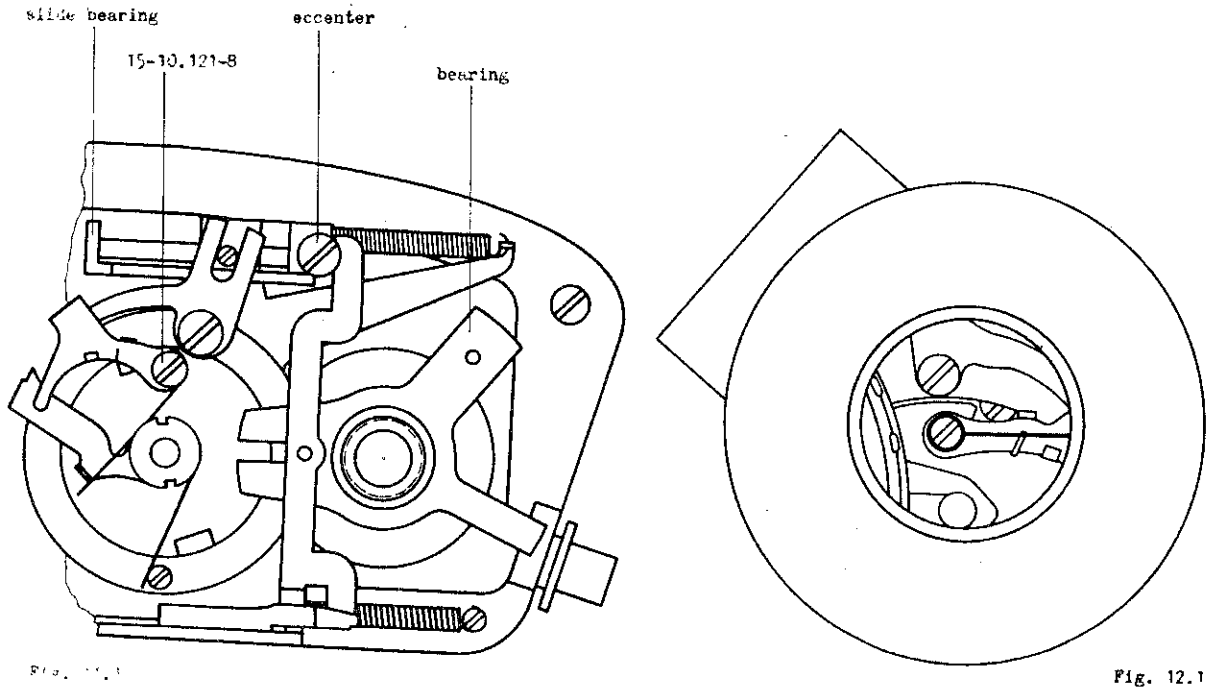


Fig. 12.1

Push the eyepiece to the bottom right: Set the first bottom scale division at the top of the guide lever 42-655.09-25 (see Fig. 13.1) by rotating the knurled ring on the eyepiece head.
Check the individual stop values of the gauge from 1.4 to 22. The lift must agree with the graduation in the eyepiece.

TECHNISCHER KUNDENDIENST

Setting the mechanical lift for the diaphragm control lever, the DIN-cam, and the shutter speed setting lever

Continuation of Sheet 18

Deviations of up to 1/4 of a division are permissible. Deviations in excess of this can be corrected by bending the slide bearing on the exposure meter housing (see Fig. 11.1).
Set the shutter speed setting knob 1/15, the gauge at f/8, and the setting knob from DIN 39 to DIN 36; no play must be present. Again set the first division line at the top of the control lever (see Fig. 13.1) and check all the notches of the setting knob from DIN 36 to DIN 12. The lift of the control lever must agree with the graduation in the eyepiece. Deviations of up to 1/4 of a division are permissible. Larger deviations can be corrected by rotating the eccenter on the slide (see Fig. 11.1). If the lift of the eccenter is insufficient, a correction is possible by moving the bearing (see Fig. 11.1).

TECHNISCHER KUNDENDIENST

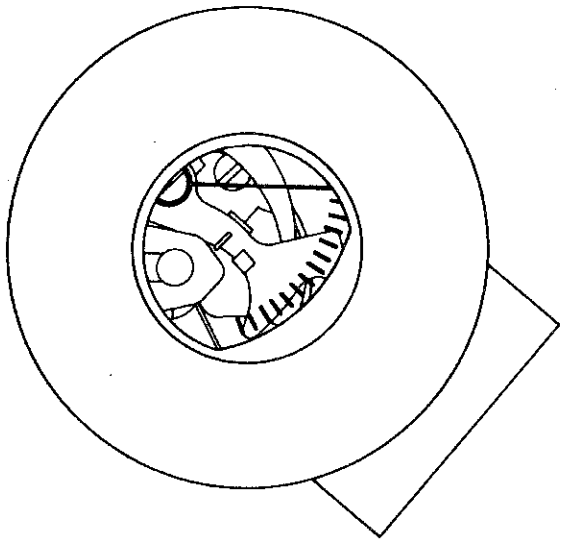


Fig. 13.1

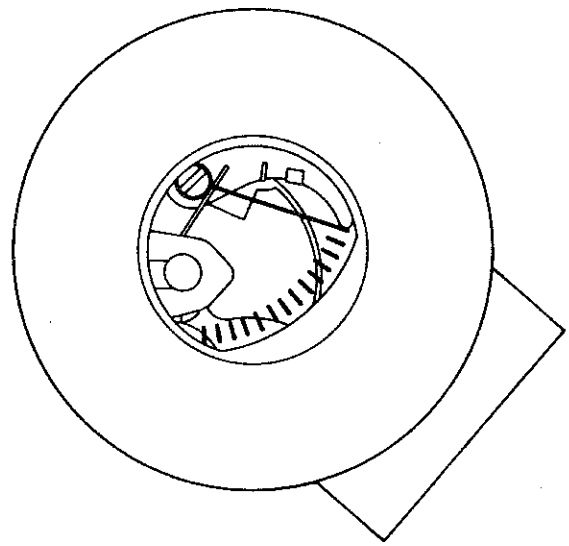


Fig. 14.1

Set the shutter speed dial at 1/2000 sec; the setting knob at DIN 15, and the gauge at f/4. Set the last, upper scale division at the top of the control lever (see Fig. 14.1), and check all the notches of the shutter speed dial from 1/2000 sec. to 1 sec. The lift of the lever must agree with the graduation in the eyepiece.
At the shutter speeds of 1/2000, 1/15, and 1 sec. the tolerance must not be more than 1/4 of a division.
In the case of the other shutter speeds, deviations of up to 1/3 of a division are permissible, due to the nature of the DIN-cam. If the setting does not agree, the eccenter on the setting lever 42-655.02-234 (see Spare parts List, Sheet 7.1) can be corrected by means of the key 42-655.02-235 W5.

Adjusting the mirror

Sheet 20

Tools

1. Autocollimator 42-582.01 Z1 W4
2. Setting device for hinged mirror 42-655.00 W1

Procedure

The baseplate is removed (see Repair Instructions, Sheet 3.1). Check the position of the bayonet ring relative to the film plane (see Sheet 4.1).

Place the setting device for the hinged mirror 42-655.00 W1 on the bayonet ring so that the mirror of the setting device is in a 45° position above the mirror of the camera. Push the stop of the setting device against the underside of the camera and check the 45° position of the bayonet ring relative to the mirror with the autocollimator 42-582.01 Z1 W4.

Deviations of 2 line widths are permissible. Corrections can be carried out by rotating the two grub screws M1.4 x 2.5 DIN 551 (see Spare Parts List, Sheet 10.1).

Important

The mirror can be adjusted only prior to the adjustment of the Fresnel lens. Adjustment in the reverse sequence would upset the entire adjustment of the camera.

TECHNISCHER KUNDENDIENST

Removal and replacement of the photo-resistance and the exposure meter

Sheet 21

Procedure

The cover plate is removed (see Repair Instructions, Sheets 1 and 2).

Photo-resistance
Unsolder the layer resistance and the two leads from the exposure meter. Unscrew one screw M 2x5 DIN 84 and one screw M 1.7x6 LN 120 19 (see spare-parts list, Sheet 4.1). Remove the photo-resistance.

Exposure meter
Remove lever 42-655.01-68 (see spare-parts list, Sheet 7.1). Unscrew 3 screws M 1.7x4 LN 120 19, remove the three washers and the bearing. Unscrew one screw M 1.7x3 LN 120 19 and one screw M 1.7x3 DIN 84. Remove exposure meter carefully, away from the prism holder.

Attention

The pointers of the exposure meter protrude into the prism holder. When removing and replacing the exposure meter the utmost care is necessary to prevent bending the pointers which leads to functional defects.

The photo-resistance and exposure meter are replaced in the reverse order.

Adjustment of the photo-resistance and the exposure meter, see Sheet 8.

TECHNISCHER KUNDENDIENST

TECHNICAL SERVICE

KUNDENDIENST

25.9.1975

Cleaning the mirror compartment
Sheet 22

1. Dust and fluff

Dust and fluff on the mirror are removed carefully, preferably with a soft,dry hair brush, from hich all grease is removed with ether before and repeatedly during the cleaning process.
Special care has to be taken, in case the mounting of the brush consists of metal. Easily the mirror surface can be damaged. The brush must, however, be absolutely dry during cleaning.
Dust and fluff on the viewfinder screen should be removed only if the image in the viewfinder suffers severely. For this purpose we suggest a dry antistatic brush repeatedly degreased in ether. Care must be taken to avoid contact between the mount of the brush and the viewfinder screen.
Avoid solvents on the viewfinder screen, they can damage it completly.
On no account should you blow into the mirror compartment, as this may transfer dust to where it is no longer accessible from outside.

2. Mirrors more badly affected by dirt

Cut a piece of wood, half as thick as a pencil, at an angle of 45° at one end.
Thoroughly degrease a small piece of chamois leather by repeatedly washing it in ether. Attach a suitable piece of this on the angled surface of the stick by means of a doublesided adhesive foil.

Work on the dirty mirror gently without applying pressure, as it is surfaced-silvered. In presistent cases the piece of chamois leather may have to be replaced.
It is important to proceed with great caution in order to preserve the correct mirror adjustment.

In order to protect the mirror compartment against dirt the camera should never be left without lens or dust cap.

Ernst Leitz G m b H Wetzlar	Repair instructions for the LEICAFLEX	Sheet 50 to 99

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TECHNISCHER KUNDENDIENST

5.12.67

Removal of functional defects

Sheet 50

Defect

The follow pointer of the exposure meter sticks.

Cause

The guide lever 42-655.09-25 has too much axial play, jumps off the pointer 42-655.09-23 and obstructs it (see spare-parts list, Sheet 6.1)

Repair procedure

Reduce the play by inserting one or more washers 15-12.01-14/2 around the screw 15-10.121-8 until the lever moves without play.

If the camera top is removed from a LEICAFLEX of this series on the occasion of the repair, a check and adjustment of the play of the guide lever should be carried out.

TECHNISCHER KUNDENDIENST

Removal of functional defects

Sheet 51

Defect

The mirror sticks to the U bar in the top of the camera.

Cause

The mirror is not firmly enough seated in the holder and can change its position when it is raised.

Repair procedure

Push the mirror back with a wooden rod as far as possible. Glue two metal foils of 0.1mm thickness between mirror and mirror mount with UHU-hard (see Fig. 50.1)
Check that there is a distance of at least 0.12mm between the mirror and the U bar.
This check must also be carried out on all cameras returned for repair.

TECHNISCHER KUNDENDIENST

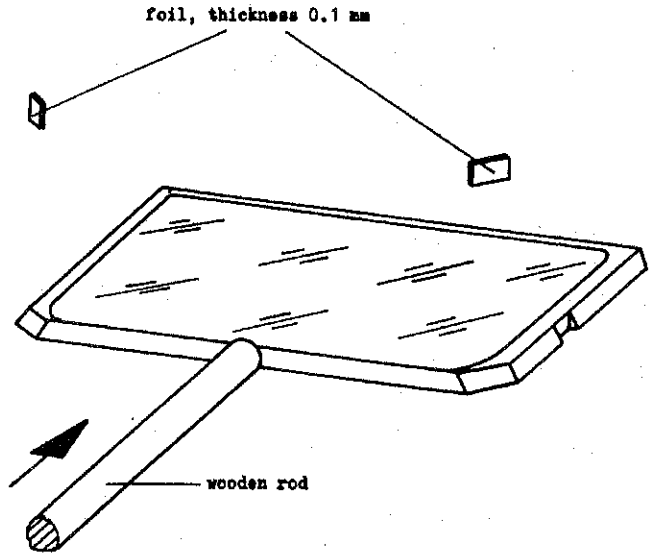


Fig. 50.1

Removal of functional defects

Sheet 51

Defect

The camera shutter is blocked.

Cause

The side spring 42-655.04-163 slips from the locking angle 42-655.04-160, thereby blocking the shutter (see spare-parts list, Sheet 9.1)

Repair procedure

Exchange the old-type locking angle against new type (see Fig. 51.1)

Fig. 51.1

This exchange should be carried out in cameras of this series returned after repair.

TECHNISCHER KUNDENDIENST

Removal of functional defects

Sheet 53

Defect

1. X-contact does not function and/or
2. the camera shutter is blocked.

Cause

The large contact spring 42-655.04-71 of the X-contact (see brake 42-655.04-34, spare-parts list, Sheet 9.1) is broken. A crack occurs along the edge of the rolled-on platinum layer.

Repair procedure

Take out brake.
Exchange large contact spring against the new type with rivet. Take care during the installation to ensure a distance of 0.3mm between the contacts in position "A". In position "B" the contact springs must make effective contact at sufficient pressure (see Fig. 52.1)

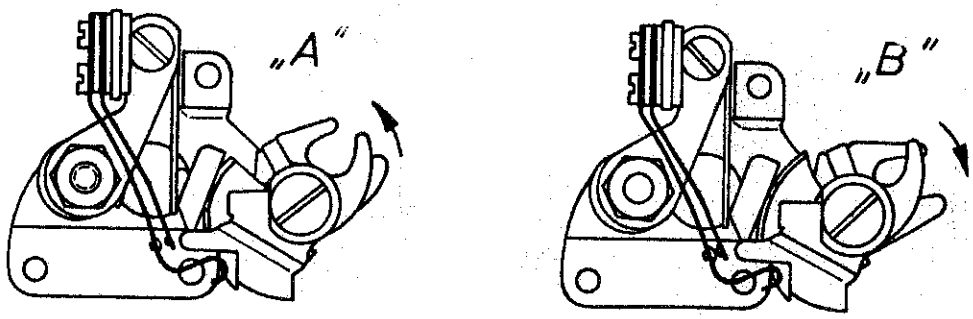


Fig. 52.1

In cameras of this series returned for repair the large contact spring 42-655.04-71 without contact rivet must be exchanged with the contact spring with rivet (see Fig. 53.1).

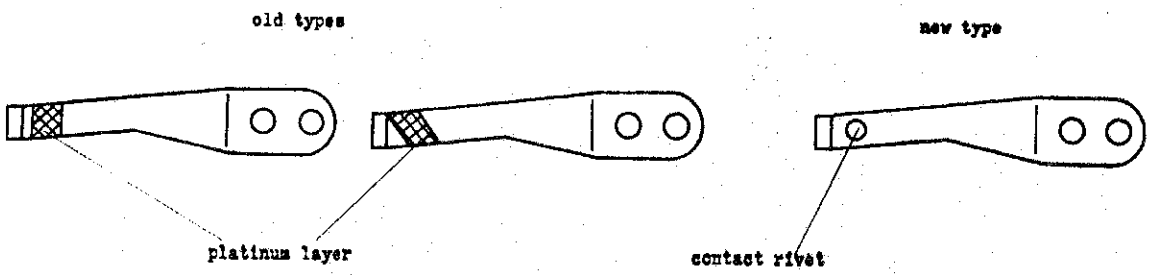


Fig. 53.1

TECHNISCHER KUNDENDIENST

Removal of functional defects

Sheet 54

Defect

The camera shutter is blocked.

Cause

The stop of the release rod has become bent due to hard and jerky release (magnetic release) and blocks the shutter.

Repair procedure

Remove the base plate.
Wind the shutter.
Release the shutter with arresting pin 42-253.01 Z1 W84; keep the arresting pin depressed.
Measure the distance between the main body and the end of the depressed release rod 42-655.02-118 with a depth gauge (see spare-parts list, Sheet 13.1).
Turn a brass disc, diameter 5.8 according to this measurement (see Fig. 54.1).
If the release rod does not protrude from the bearing, the lug shown on the right in Fig. 54.1 is fixed to the brass disc.

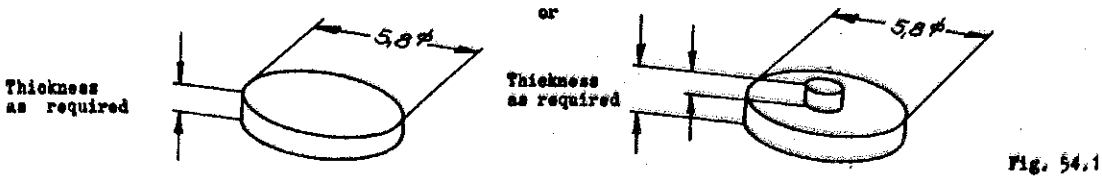


Fig. 54.1

Place the brass disc on the release rod. The side of the brass disc facing the baseplate is covered with a drop of UHU. Place the baseplate in position; remove after about 1 min. Mark the circumference of the brass disc with a marker; remove the disc. Remove the varnish from the baseplate within the marked circle.
Glue disc with UHU, mount baseplate.
The brass disc must be built into cameras of this series returned after repair.

TECHNISCHER KUNDENDIENST

Removal of functional defects

Sheet 55

Defect

The mirror swings when the shutter is wound.

Cause

The bottom stop of the mirror is too high. This prevents the arrest of the mirror.

Repair procedure

Remove brake.
Unscrew the grub screw 42-655.03-94 (see spare-parts list, Sheet 10.1) until the mirror has a play of a few 1/10mm in its lower arrest.
Zeroing - bayonet ring to Fresnel lens - must be corrected on the picture frequency and lens adjusting instrument 08-27.00 Z1 W14 by turning the two grub screws M 1.4x2.5 DIN 551.

TECHNISCHER KUNDENDIENST

Removal of functional defects

Sheet 56

Defect

The camera shutter is blocked.

Cause

The locking latch 42-655.02-115 (see spare-parts list, Sheet 13.1) is bent by strong pressure on the release button when the shutter is not wound.

Repair procedure

Remove delayed-action mechanism and bearing plate 42-655.02-67 (see spare-parts list, Sheet 13.1). Take out release spindle 42-655.02-11. Remove the bent locking latch. Replace by a new locking latch with a reinforced crease.

locking latch 42-655.02-115

Fig. 55.1

TECHNISCHER KUNDENDIENST

Removal of functional defects

Sheet 57

Defect

Camera has a light leak.

Cause

Light penetrates trough the slot between mirror bearing and prism holder and causes a horizontal light stripe on the film (see Fig. 56.1).

Repair procedure

The camera needs not to be dismentled. Move the mirror into the lower position and fill the slot between mirror bearing and prism holder with Wax 637.

TECHNISCHER KUNDENDIENST

Fig. 56.1

Removal of functional defects

Sheet 58

Condition

The camera shutter is blocked.

Cause

Is is possible to force the release button down with shutter unwound and the selftimer cocked. In consequence the selftimer is released and the shutter is blocked.

Repair Procedure

Wind the lever of the selftimer fully and hold it in position. Cock the shutter and release the lever of the selftimer. Now the shutter is released by the selftimer in the normal way. The camera functions well again. Nevertheless, care should be taken that the release button should not function too easily when the shutter is unwound and the selftimer cocked. It may be necessary to exchange the locking latch 42-655.02-115 (see repair instructions, sheet 56.1).

TECHNISCHER KUNDENDIENST

Removal of functional defects

Sheet 59

Condition

The winding lever is blocked.

Cause

The lever has too much play (play in the winding lever in the cocked condition but folded back to the advance position, see fig. 57.1). Due to this the locking latch 42-655.02-115 jumped behind the turned-up part of the winding cup wheel 42-655.02-41 (see spare part list, page 13.1).

Repair procedure

Remove cover and base plate (see repair instructions, pages 1.1 to 3.1). Lift the arm of the blocking lever cautiously in front of the turned-up portion of the winding cylinder. By the application of stops of greater dimensions (42-655.02-351; 42-655.02-352 or 42-655.02-353, see spare parts list, page 12) the play of the winding arm can be reduced.
It is important that the winding lever comes to rest - after being wound - in the position indicated at fig. 57.1 .

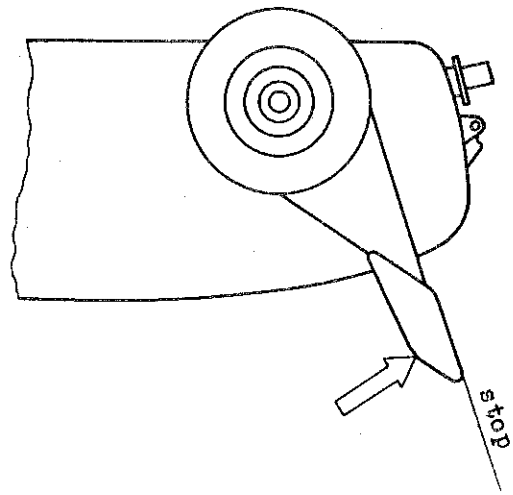


Fig. 57.1

TECHNISCHER KUNDENDIENST

Removal of functional defects

Sheet 60

Condition

The brake jumps

Cause

The first blind does not run off completely.

Repair instructions

Remove base plate (repair instructions, page 3.1). The cogwheel 42-655.04-19 or a variety of those, (see spare part list, page 9.1 and 9.2) should be removed.
The braking nose of the cogwheel has to be filed off in accordance with fig. 58.1 and polished with finegrain emery paper. Place cogwheel back.

Cock the shutter and hold the first blind. Press the shutter release and allow the first blind to move slowly until it meets with resistance. By turning the cogwheel, by means of a screwdriver inserted into excentre slot, overcome the first brake, but do not turn it right to stop. The distance between the edges of the image frame and the first blind must be at least 1.5 mm. Allow the first blind to run off normally. The previously measured distance must be unchanged.
Should it be necessary, build in a new brake.

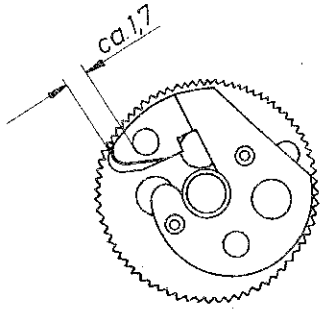


Fig. 58.1

TECHNISCHER KUNDENDIENST

Elimination of malfunctions

Sheet 61

Instrument fault

Measuring pointer sticks to the stop

Cause

Varnish on the coil has dissolved

Procedure

Turn the coil of the measuring mechanism against stop „B" (see Fig. 59.1) and hold it in position as shown in Fig. 60.1.
Remove varnish from the portion of the coil touching the stop „A" - usually already marked by a little black dot - by means of a scraping tool (not supplied by Leitz). Main pressure should be applied against the supporting index finger. After scraping, the metal should be freely exposed. This operation should be carried out with the greatest caution and thoroughly to avoid damage of the needle bearing of the coil which will render the measuring mechanism useless.
Apply graphite to the little roller of the stop „A" carefully with a soft pencil. If necessary the roller can first be washed with thinning solution 13652. The roller of the stop must be able to rotate freely, i.e. it must not stick to the housing.
The same functional disturbance can be caused by sticking of the pointer to the exposure meter housing. In this case the pointer window must be slightly enlarged by filing.

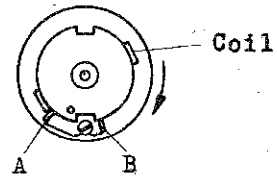


Fig. 59.1

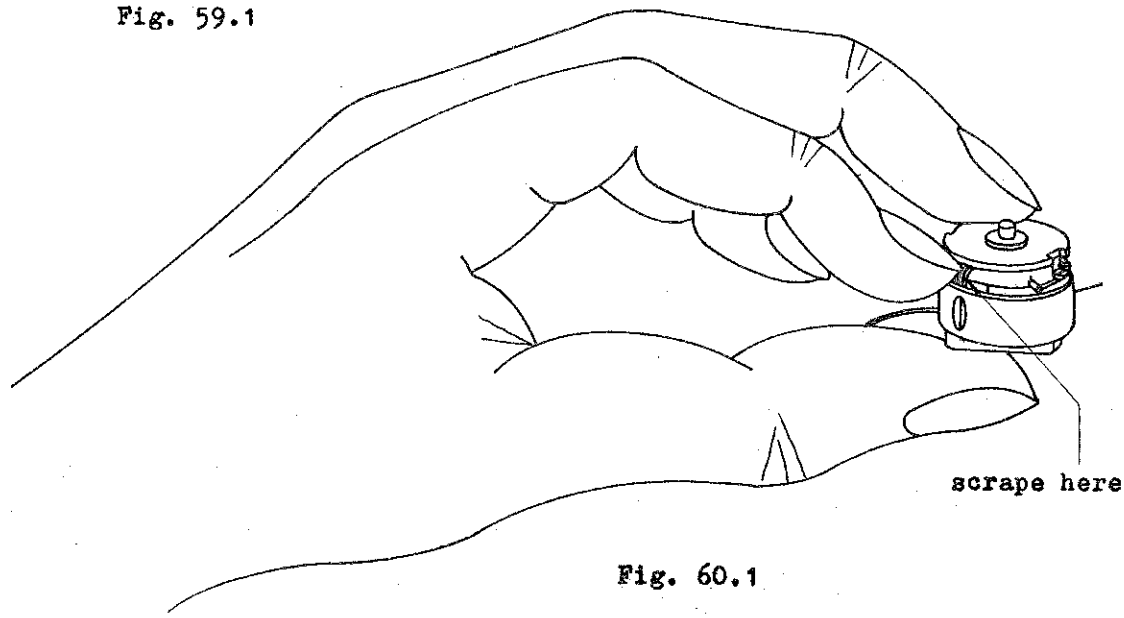


Fig. 60.1

TECHNISCHER KUNDENDIENST

Elimination of malfunctions

Sheet 62

Instrument fault

Battery switch does not switch on

Cause

The spring 42-655.04-256 (see Spare Parts List, sheet 8.2) has become weak and fails to make contact.

Procedure

Completely dismantle the holder 42-655.04-96. Insert a steel spring 42-655.04-258 between contact spring 42-655.04-256 and insulating piece 42-655.04-249. The steel spring must be bent so that the contact spring reaches a contact pressure of 45 ± 5 p. If necessary, the steel spring should be slightly shortened to avoid shorting. Care should be taken that the winding lever does not have excessive play in its rest position (see sheet 63.1).

TECHNISCHER KUNDENDIENST

Elimination of malfunctions

Sheet 63

Instrument fault

Battery switch does not switch off

Cause

The winding lever has excessive play in the rest position.

Procedure

File the arresting lever (see Fig. 61.1) slightly where it contacts the stop pin of the winding mechanism. This allows the arresting lever to drop in a little further.

Excessive filing off must be avoided at all costs, as this would block the winding mechanism.
(See also sheet 62.1).

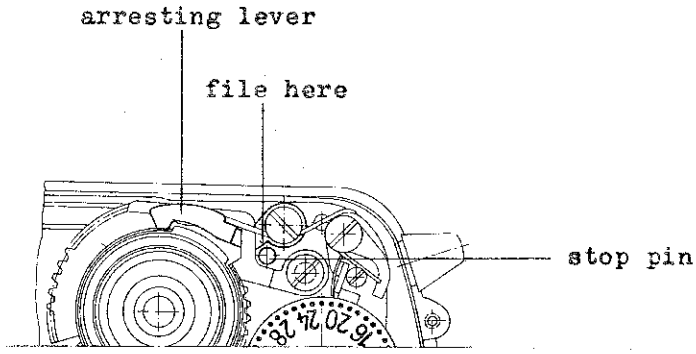


Fig. 61.1

TECHNISCHER KUNDENDIENST

Ernst Leitz G m b H Wetzlar	Special instruction (LEICAFLEX)	

Conversion of the tools for the balancing resistance 42-655.01 Z1 W83 and the balancing gauge 42-655.01 Z1 W19

In order to be able to balance LEICAFLEXES of modification 3 the above mentioned tools must be modified according to diagrams A and B.
The balancing gauge 42-655.01 Z1 W19 can be used even after modification for cameras of state 1 and 2.

42-655.01 Z1 A19

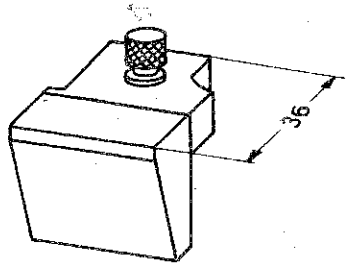


Fig. A

42-655.01 Z1 W83

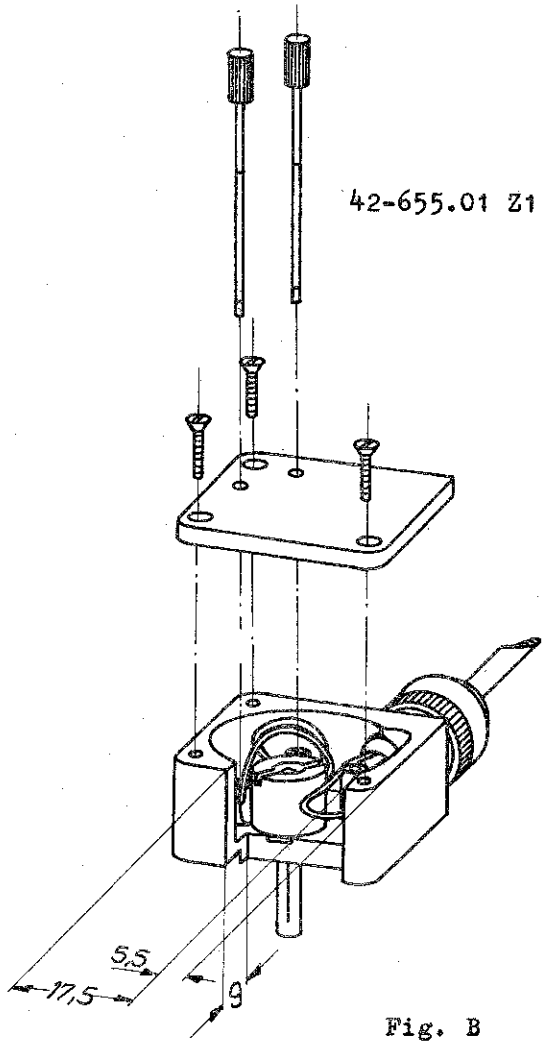


Fig. B

TECHNISCHER KUNDENDIENST

5.12.67

This sheet may be discarded after the conversion has been carried out.

TECHNISCHER KUNDENDIENST

Bestell-Nr Part-No	Benennung Description	LEICAFLEX
42-655.02-308	Ring, verchromt / ring, chrome-plated	1
42-655.02-312	Aufzugshebel, verchromt winding lever, chrome-plated	1
42-655.02-313	Kappe / cap	1
42-655.801-109	Schraube, verchromt M 1,7, bei Bedarf screw, chrome-plated M 1.7, when needed	2
42-655.010-031	Vorschraubring, schwarz lackiert retaining ring, black lacquered	1
42-655.010-034	Einstellknopf, montiert, schwarz lackiert setting knob, ass., black lacquered	1
42-655.010-052	Rückwickelknopf, schwarz lackiert rewind knob, black lacquered	1
42-655.010-053	Gehäuse, schwarz lackiert housing, black lacquered	1
42-655.010-062	Rückwickelhebel, schwarz lackiert rewind lever, black lacquered	1
42-655.010-100	Deckkappe, vollst., schwarz lackiert cover, compl., black lacquered	1
42-655.010-102	Anschlag, schwarz lackiert stopping ledge, black lacquered	1
42-655.010-103	Befestigungsklemme, schwarz lackiert acc. clip, black lacquered	1
42-655.010-104	Feder, schwarz lackiert spring, black lacquered	1
42-655.010-121	Deckkappe, gelötet, schwarz lackiert cover, soldered, black lacquered	1
42-655.010-126	Halterung, schwarz lackiert sleeve, black lacquered	1
42-655.010-292	Haube, schwarz lackiert cap, black lacquered	1
42-655.010-296	Deckel, schwarz lackiert cover, black lacquered	1
42-655.020-181	Vorschraubring, schwarz lackiert retaining ring, black lacquered	1
42-655.020-307	Zeiteinstellknopf, schwarz lackiert speed setting knob, black lacquered	1
42-655.020-308	Ring, schwarz lackiert ring, black lacquered	1
42-655.020-312	Aufzughebel, schwarz lackiert winding lever, black lacquered	1
1,2 h 8 x 7 DIN 7	Zylinderstift, brüniert cylindrical pin, burnished	1
M 1,4 x 2 DIN 84	Zylinderschraube, brüniert cylindrical head screw, burnished	2
M 2 x 2,5 DIN 84	Zylinderschraube, brüniert cylindrical head screw, burnished	3
M 2 x 5 DIN 551	Gewindestift, brüniert grub screw, burnished	1
M 1,4 x 2 DIN 553	Gewindestift, verchromt grub screw, chrome-plated	1
M 1,7 x 3 DIN 553	Gewindestift, verchromt / grub screw, chrome-plated	3
15-012.008-033	Wellenfeder / waved spring	1
15-12.14-7/2	Unterlegscheibe, 0,2 mm dick / washer 0.2 mm thick	1
15-12.21-8/1	Unterlegscheibe, 0.2 mm dick, nach Bedarf washer, 0.2 mm thick, when needed	1
15-12.21-8/2	Unterlegscheibe, 0,3 mm dick, nach Bedarf washer, 0.3 mm thick, when needed	1
15-12.21-8/3	Unterlegscheibe, 0,4 mm dick, nach Bedarf washer, 0.4 mm thick, when needed	1

LEICAFLEX

Zustand 3 ... / state 3 ...

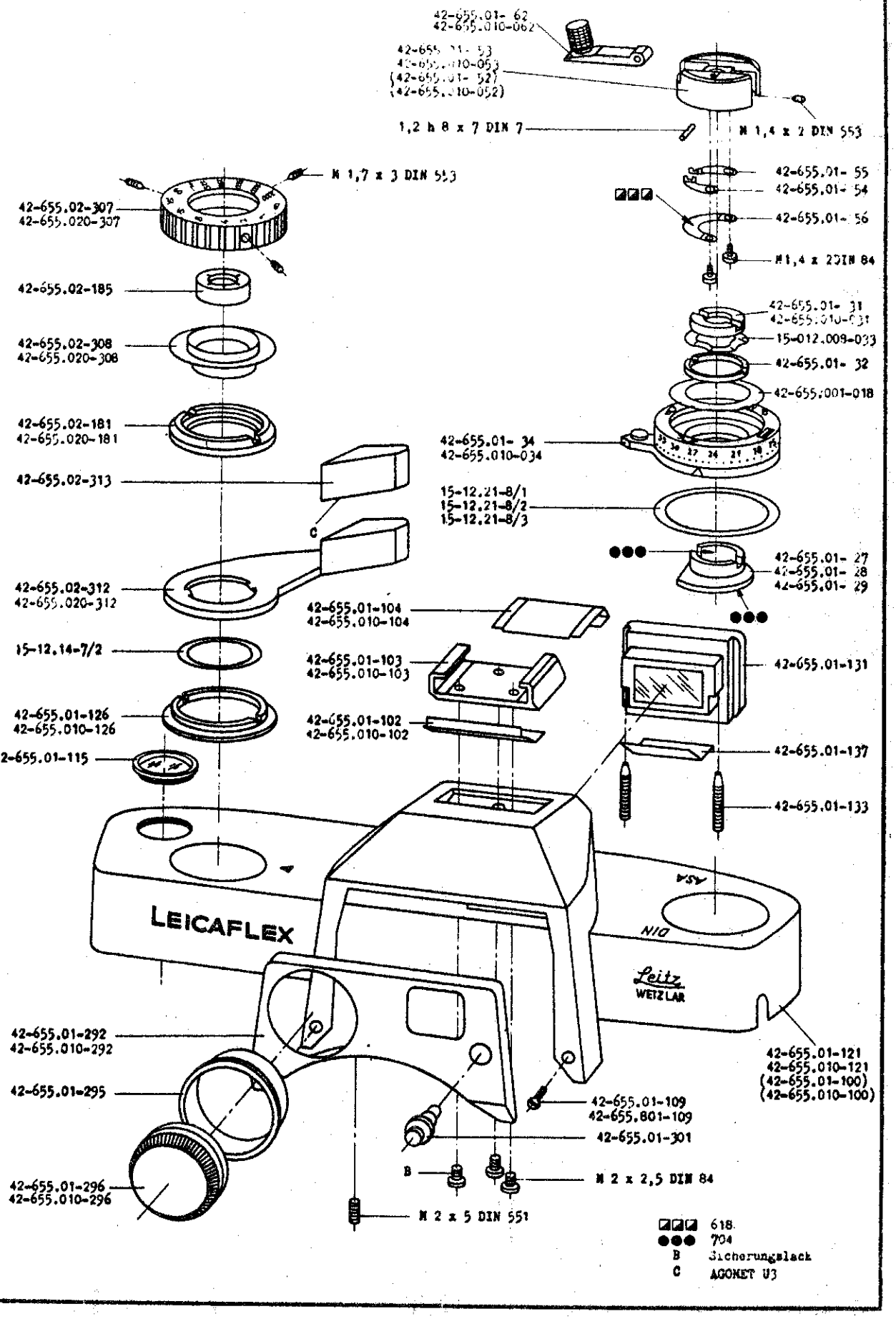
Leitz WETZLAR

Bestell-Nr / Part-No	Benennung / Description	LEICAFLEX
42-655.001-018	Scheibe / disk	1
42-655.01- 27	DIN-Kurve, nach Bedarf / DIN cam, when needed	1
42-655.01- 28	DIN-Kurve, nach Bedarf DIN cam, when needed	1
42-655.01- 29	DIN-Kurve, nach Bedarf DIN cam, when needed	1
42-655.01- 31	Vorschraubring, verchromt retaining ring, chrome-plated	1
42-655.01- 32	Vorschraubring retaining ring	1
42-655.01- 34	Einstellknopf, mont., verchromt setting knob, ass., chrome-plated	1
42-655.01- 52	Rückwickelknopf, verchromt rewind knob, chrome-plated	1
42-655.01- 53	Gehäuse, verchromt housing, chrome-plated	1
42-655.01- 54	Halter, rechter bearing, right	1
42-655.01- 55	Halter, linker bearing, left	1
42-655.01- 56	Blattfeder flat spring	1
42-655.01- 62	Rückwickelhebel, verchromt rewind lever, chrome-plated	1
42-655.01-100	Deckkappe, vollst., verchromt cover plate, compl., chrome-plated	1
42-655.01-102	Anschlag, verchromt stopping ledge, chrome-plated	1
42-655.01-103	Befestigungsklemme, verchromt acc. clip, chrome-plated	1
42-655.01-104	Feder, verchromt spring, chrome-plated	1
42-655.01-109	Senkschraube M 1,4, verchromt countersunk screw M 1.4, chrome-plated	2
42-655.01-115	Lupe, gefaßt magnifire, mounted	1
42-655.01-121	Deckkappe, gelötet, verchromt cover plate, soldered, chrome-plated	1
42-655.01-126	Haltering, verchromt retaining ring, chrome-plated	1
42-655.01-131	Augenmuschel, gekittet eye cup, acc.	1
42-655.01-133	Gewindestift, brüniert grub screw, burnished	2
42-655.01-137	Blende light shield	1
42-655.01-292	Haube, verchromt cap, chrome-plated	1
42-655.01-295	Haltering sleeve	1
42-655.01-296	Deckel, verchromt cover, chrome-plated	1
42-655.01-301	Schaltstift contact pin	1
42-655.02-181	Vorschraubring, verchromt retaining ring, chrome-plated	1
42-655.02-185	Vorschraubring retaining ring	1
42-655.02-307	Zeiteinstellknopf, verchromt speed setting knob, chrome-plated	1

TECHNISCHER KUNDENDIENST

TECHNICAL SERVICE

15. 3. 1968



Leitz WETZLAR

LEICAFLEX

Ausgangszustand ... Zustand 2
original state ... state 2

Blatt Sheet 1.1

Bestell-Nr Part-No	Benennung Description	LEICAFLEX
42-655.02-313	Kappe / cap	1
42-655.801-109	Schraube, verchromt M 1,7, bei Bedarf screw, chrome-plated M 1.7, when needed	2
42-655.010-031	Vorschraubring, schwarz lackiert retaining ring, black lacquered	1
42-655.010-034	Einstellknopf, mont., schwarz lackiert setting knob, ass., black lacquered	1
42-655.010-052	Rückwickelknopf, schwarz lackiert rewind knob, black lacquered	1
42-655.010-053	Gehäuse, schwarz lackiert housing, black lacquered	1
42-655.010-062	Rückwickelhebel, schwarz lackiert rewind lever, black lacquered	1
42-655.010-102	Anschlag, schwarz lackiert stopping ledge, black lacquered	1
42-655.010-103	Befestigungsklemme, schwarz lackiert acc. clip, black lacquered	1
42-655.010-104	Feder, schwarz lackiert spring, black lacquered	1
42-655.010-126	Haltering, schwarz lackiert sleeve, black lacquered	1
42-655.010-292	Haube, schwarz lackiert cap, black lacquered	1
42-655.010-296	Deckel, schwarz lackiert cover, black lacquered	1
42-655.020-181	Vorschraubring, schwarz lackiert retaining ring, black lacquered	1
42-655.020-307	Zeiteinstellknopf, schwarz lackiert speed setting knob, black lacquered	1
42-655.020-308	Ring, schwarz lackiert ring, black lacquered	1
42-655.020-312	Aufzughebel, schwarz lackiert winding lever, black lacquered	1
1,2 h 8 x 7 DIN 7	Zylinderstift, brüniert cylindrical pin, burnished	1
M 1,4 x 2 DIN 84	Zylinderschraube, brüniert cylindrical head screw, burnished	2
M 2 x 2,5 DIN 84	Zylinderschraube, brüniert cylindrical head screw, burnished	3
M 2 x 5 DIN 551	Gewindestift, brüniert grub screw, burnished	1
M 1,4 x 2 DIN 553	Gewindestift, verchromt grub screw, chrome-plated	1
M 1,7 x 3 DIN 553	Gewindestift, verchromt grub screw, chrome-plated	3
15-012.008-033	Wellenfeder waved spring	1
15-12.14-7/2	Unterlegscheibe, 0,2 mm dick washer, 0.2 mm thick	1
15-12.21-8/1	Unterlegscheibe, 0,2 mm dick, nach Bedarf washer, 0.2 mm thick, when needed	1
15-12.21-8/2	Unterlegscheibe, 0,3 mm dick, nach Bedarf washer, 0.3 mm thick, when needed	1
15-12.21-8/3	Unterlegscheibe, 0,4 mm dick, nach Bedarf washer, 0.4 mm thick, when needed	1

TECHNISCHER KUNDENDIENST

LEICAFLEX

Ausgangszustand ... Zustand 2
original state ... state 2

Leitz WETZLAR

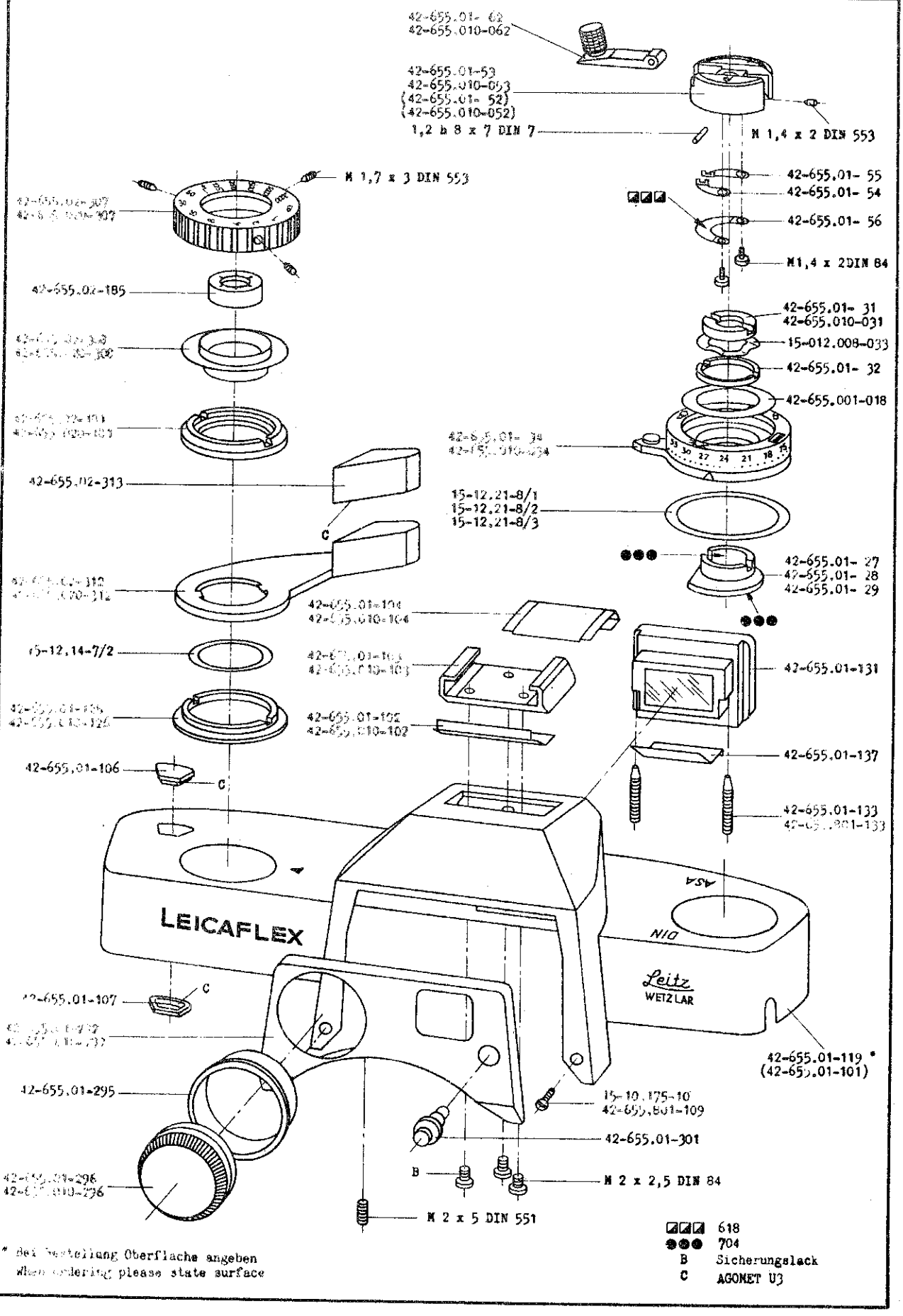
Bestell-Nr / Part-No	Benennung / Description	LEICAFLEX
42-655.001-018	Scheibe / disk	1
42-655.01- 27	DIN-Kurve / DIN cam } nach Bedarf	1
42-655.01- 28	DIN-Kurve / DIN cam } when needed	1
42-655.01- 29	DIN-Kurve / DIN cam }	1
42-655.01- 31	Vorschraubring, verchromt / retaining ring, chrome-plated	1
42-655.01- 32	Vorschraubring / retaining ring	1
42-655.01- 34	Einstellknopf, mont., verchromt setting knob, ass., chrome-plated	1
42-655.01- 52	Rückwickelknopf, verchromt rewind knob, chrome-plated	1
42-655.01- 53	Gehäuse, verchromt housing, chrome-plated	1
42-655.01- 54	Halter, rechter bearing, right	1
42-655.01- 55	Halter, linker bearing, left	1
42-655.01- 56	Blattfeder flat spring	1
42-655.01- 62	Rückwickelhebel, verchromt rewind lever, chrome-plated	1
42-655.01-101	Deckkappe, vollst., verchromt cover plate, compl., chrome-plated	1
42-655.01-102	Anschlag, verchromt stopping ledge, chrome-plated	1
42-655.01-103	Befestigungsklemme, verchromt acc. clip, chrome-plated	1
42-655.01-104	Feder, verchromt spring, chrome-plated	1
42-655.01-106	Fenster window	1
42-655.01-107	Index / index	1
42-655.01-109	Senkschraube, verchr. / counter sunk screw, chrome-plated	
42-655.01-119	Deckkappe, gelötet, verchromt cover plate, soldered, chrome-plated	1
42-655.01-126	Haltering, verchromt retaining ring, chrome-plated	1
42-655.01-131	Augenmuschel, gekittet eye cup, acc.	1
42-655.01-133	Gewindestift, brüniert grub screw, burnished	2
42-655.01-137	Blende light shield	1
42-655.01-292	Haube, verchromt cap, chrome-plated	1
42-655.01-295	Haltering sleeve	1
42-655.01-296	Deckel, verchromt cover, chrome-plated	1
42-655.01-301	Schaltstift contact pin	1
42-655.02-181	Vorschraubring, verchromt retaining ring, chrome-plated	1
42-655.02-185	Vorschraubring retaining ring	1
42-655.02-307	Zeiteinstellknopf, verchromt speed setting knob, chrome-plated	1
42-655.02-308	Ring, verchromt ring, chrome-plated	1
42-655.02-312	Aufzugshebel, verchromt winding lever, chrome-plated	1

Leitz WETZLAR

LEICAFLEX

Ausgangszustand ... Zustand 2
Original state ... state 2

Blatt Sheet 1.1



* Bei Bestellung Oberfläche angeben
When ordering please state surface

Bestell-Nr Part-No	Benennung Description	LEICAFLEX
42-655.801-155	Zylinderschraube, verchromt, M1,7, bei Bedarf cylindrical head screw, chrome-plated, M1.7, when needed	1
1,2 DIN 6799	Sicherungsscheibe retaining washer	1
M1,4x3 LN 120 19	Senkschraube, verchromt countersunk screw, chrome-plated	2
15-10.144-12	Senkschraube, brüniert countersunk screw, burnished	2
15-10.144-17	Senkschraube, brüniert, nach Bedarf countersunk screw, when needed	2
15-10.170-21	Zylinderschraube, brüniert cylindrical head screw, burnished	2
15-10.174-12	Senkschraube, brüniert countersunk screw, burnished	2
15-121.014-112	Scheibe 0,3 mm dick washer 0.3 mm thick	1
15-12.01-14/3	Scheibe 0,1 mm dick washer 0.1 mm thick	1
15-12.01-14/4	Scheibe 0,2 mm dick washer 0.2 mm thick	1
15-12.09-10	Scheibe 0,1 mm dick, nach Bedarf washer 0.1 mm thick, when needed	1
15-12.09-10	Scheibe 0,2 mm dick, nach Bedarf washer 0.2 mm thick, when needed	1
15-12.09-10	Scheibe 0,4 mm dick, nach Bedarf washer 0.4 mm thick, when needed	1

TECHNISCHER KUNDENDIENST

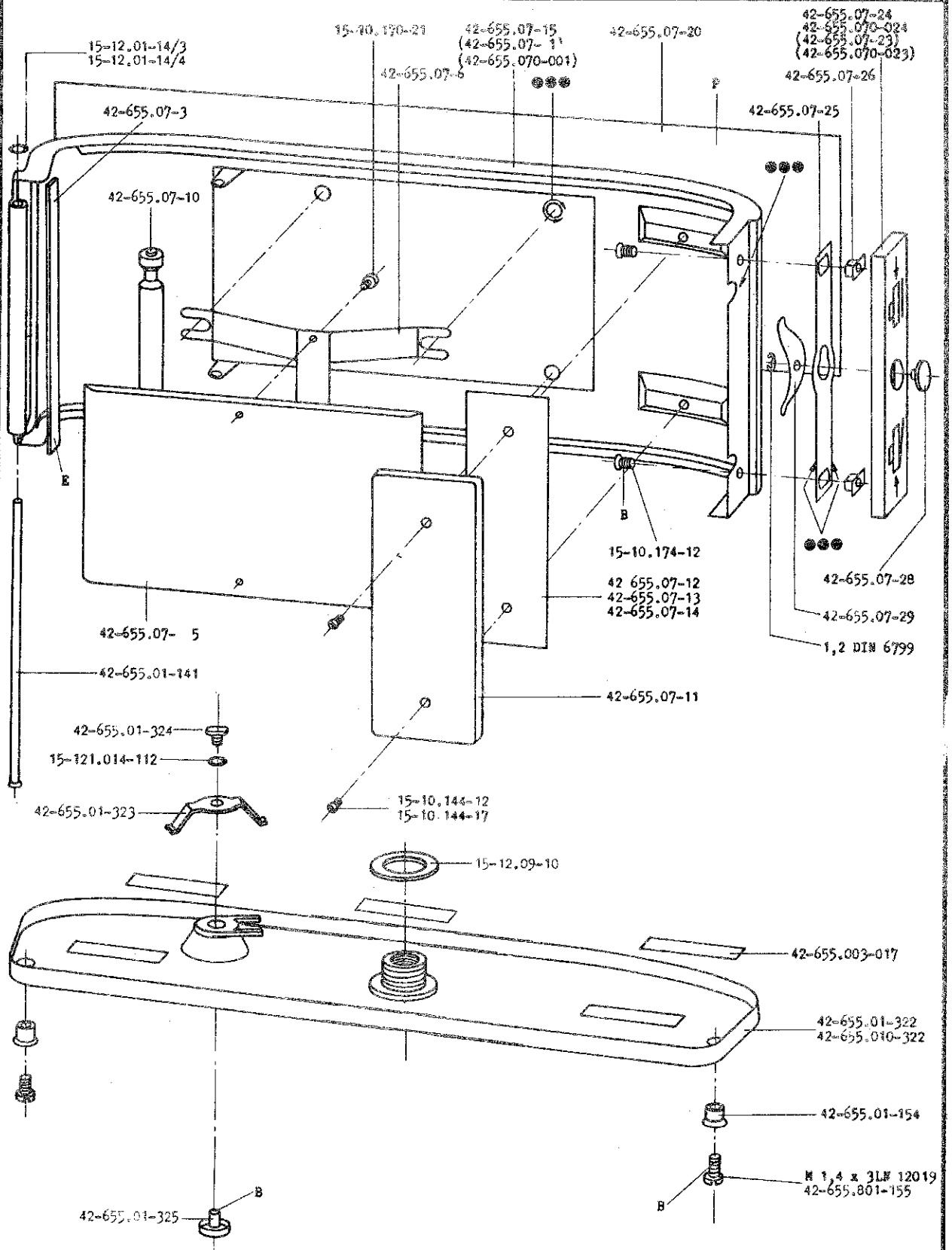
LEICAFLEX

Zustand 3 ... / state 3 ...

Leitz WETZLAR

Bestell-Nr / Part-No	Benennung / Description	LEICAFLEX
42-655.01-141	Achse / shaft	1
42-655.01-154	Buchse / bush	2
42-655.01-322	Bodendeckel, kompl., verchr., bei Bestellung bitte Serien-Nr angeben / base plate, compl., chrome-plated, when ordering please state serial No.	1
42-655.01-323	Feder / spring	1
42-655.01-324	Schraube / screw	1
42-655.01-325	Mutter / nut	1
42-655.003-017	Lichtdichtung / light protection	5
42-655.07- 1	Rückwand, vollst., verchromt / rear, compl., chrom-plated	1
42-655.07- 3	Filzstreifen / felt strip	1
42-655.07- 5	Andruckplatte / pressure plate	1
42-655.07- 6	Feder / spring	1
42-655.07- 10	Andruckwalze / roller	1
42-655.07- 11	Kappe / cap	1
42-655.07- 12	Unterlage 0,1 mm dick, nach Bedarf / intermediate plate 0.1 mm thick, when needed	1
42-655.07- 13	Unterlage 0,3 mm dick, nach Bedarf / intermediate plate 0.3 mm thick, when needed	1
42-655.07- 14	Unterlage 0,2 mm dick, nach Bedarf / intermediate plate 0,2 mm thick, when needed	1
42-655.07- 15	Rückwand mit Achse / hinged back with axis	1
42-655.07- 20	Belederung / leather covering	1
42-655.07- 23	Schieber, mont., verchromt / locking bar, ass., chrom-plated	1
42-655.07- 24	Schieber, verchromt / locking bar, chrom-plated	1
42-655.07- 25	Führungsleiste / guide ledge	1
42-655.07- 26	Mutter / nut	2
42-655.07- 28	Verrieglungsknopf / locking knob	1
42-655.07- 29	Blattfeder / flat spring	1
42-655.010-322	Bodendeckel, kompl., schwarz lackiert, bei Bestellung bitte Serien-Nr. angeben / base plate, compl., black lacquered, when ordering please state serial No.	1
42-655.070-001	Rückwand, vollst., schwarz lackiert / rear, compl., black lacquered	1
42-655.070-023	Schieber, mont., schwarz lackiert / locking bar, ass., black lacquered	1
42-655.070-024	Schieber, schwarz lackiert / locking bar, black lacquered	1

TECHNICAL SERVICE
TECHNISCHER KUNDENDIENST
15. 3.1968



●●● 704
B Sicherungslack
P ATLAS PLASTIK Kleber 500
E Kleber EC 880

Leitz WETZLAR

LEICAFLEX

Ausgangszustand ... Zustand 2
original state ... state 2

Blatt Sheet 2.1

Bestell-Nr Part-No	Benennung Description	LEICAFLEX
42-655.07- 28	Verrieglungsknopf locking knob	1
42-655.07- 29	Blattfeder flat spring	1
42-655.801-155	Zylinderschraube, verchromt, M 1,7, bei Bedarf cylindrical head screw, chrome-plated, M1.7, when need.	2
42-655.807- 8	Senkschraube, brüniert, M 1,7, bei Bedarf countersunk screw, burnished, M 1.7, when needed	2
1,2 DIN 6799	Sicherungsscheibe retaining washer	1
M 1,4 x 3 LN 12019	Senkschraube, verchromt countersunk screw, chrome-plated	2
15-10.144-14	Senkschraube, brüniert, M 1,4 countersunk screw, burnished, M 1.4	2
15-10.170-21	Zylinderschraube, brüniert cylindrical head screw, burnished	2
15-10.174-12	Senkschraube, brüniert countersunk screw, burnished	2
15-12.01-14/3	Scheibe 0,1 mm dick washer 0.1 mm thick	1
15-12.01-14/4	Scheibe 0,2 mm dick washer 0.2 mm thick	1

TECHNISCHER KUNDENDIENST

LEICAFLEX

Ausgangszustand ... Zustand 2
original state ... state 2

Leitz WETZLAR

Bestell-Nr / Part-No	Benennung / Description	LEICAFLEX
42-655.01-141	Achse shaft	1
42-655.01-149	Bodendeckel, bei Bestellung bitte Serien-Nr angeben base plate, when ordering please state serial No.	1
42-655.01-152	Scheibe 0,6 mm dick, nach Bedarf washer 0.6 mm thick, when needed	1
42-655.01-153	Unterlage 0,6 mm dick, nach Bedarf washer 0.6 mm thick, when needed	1
42-655 01-154	Buchse bush	2
42-655.01-156	Scheibe 0,3 mm dick, nach Bedarf washer 0.3 mm thick, when needed	1
42-655.01-157	Unterlage 0,2 mm dick, nach Bedarf washer 0.2 mm thick, when needed	1
42-655.01-158	Unterlage 0,1 mm dick, nach Bedarf washer 0.1 mm thick, when needed	1
42-655.01-160	Stativgewindebuchse 1/4 " 9 ø tripot bush 1/4 " 9 mm dia.	1
~~42-655.01-161~~	~~Stativgewindebuchse 1/4 " 11 ø~~ (nicht mehr lieferbar, bei Bedarf 42-655.01-160 in Verbind ng mit 42-655.04-154- siehe Blatt 9.1 - verwe den.) ~~tripot bush 1/4 " 11 mm dia.~~ (no longer available, when needed use 42-655.01-160 in connection with 42-655.04-154 - see sheet 9.1)	
42-655.01-162	Mutter nut	1
42-655.01-163	Hülse sleeve	1
42-655.01-164	Senkschraube countersunk screw	3
42-655.07- 1	Rückwand, vollst. hinged back, compl.	1
42-655.07- 3	Filzstreifen felt strip	1
42-655.07- 5	Andruckplatte pressure plate	1
42-655.07- 6	Feder spring	1
42-655.07- 10	Andruckwalze roller	1
42-655.07- 11	Kappe cap	1
42-655.07- 12	Unterlage 0,1 mm dick, nach Bedarf intermediate plate 0.1 mm thick, when needed	1
42-655.07- 13	Unterlage 0,3 mm dick, nach Bedarf intermediate plate 0.3 mm thick, when needed	1
42-655.07- 14	Unterlage 0,5 mm dick, nach Bedarf intermediate plate 0.5 mm thick, when needed	1
42-655.07- 15	Rückwand, mit Achse hinged back, with axis	1
42-655.07- 20	Belederung leather covering	1
42 655 07- 23	Schieber, mont. locking bar, ass.	1
42-655.07- 24	Schieber locking bar	1
42-655.07- 25	Führungsleiste guide ledge	1
42-655.07- 26	Mutter nut	2

TECHNISCHER KUNDENDIENST

1. 7.66

Leitz WETZLAR

LEICAFLEX

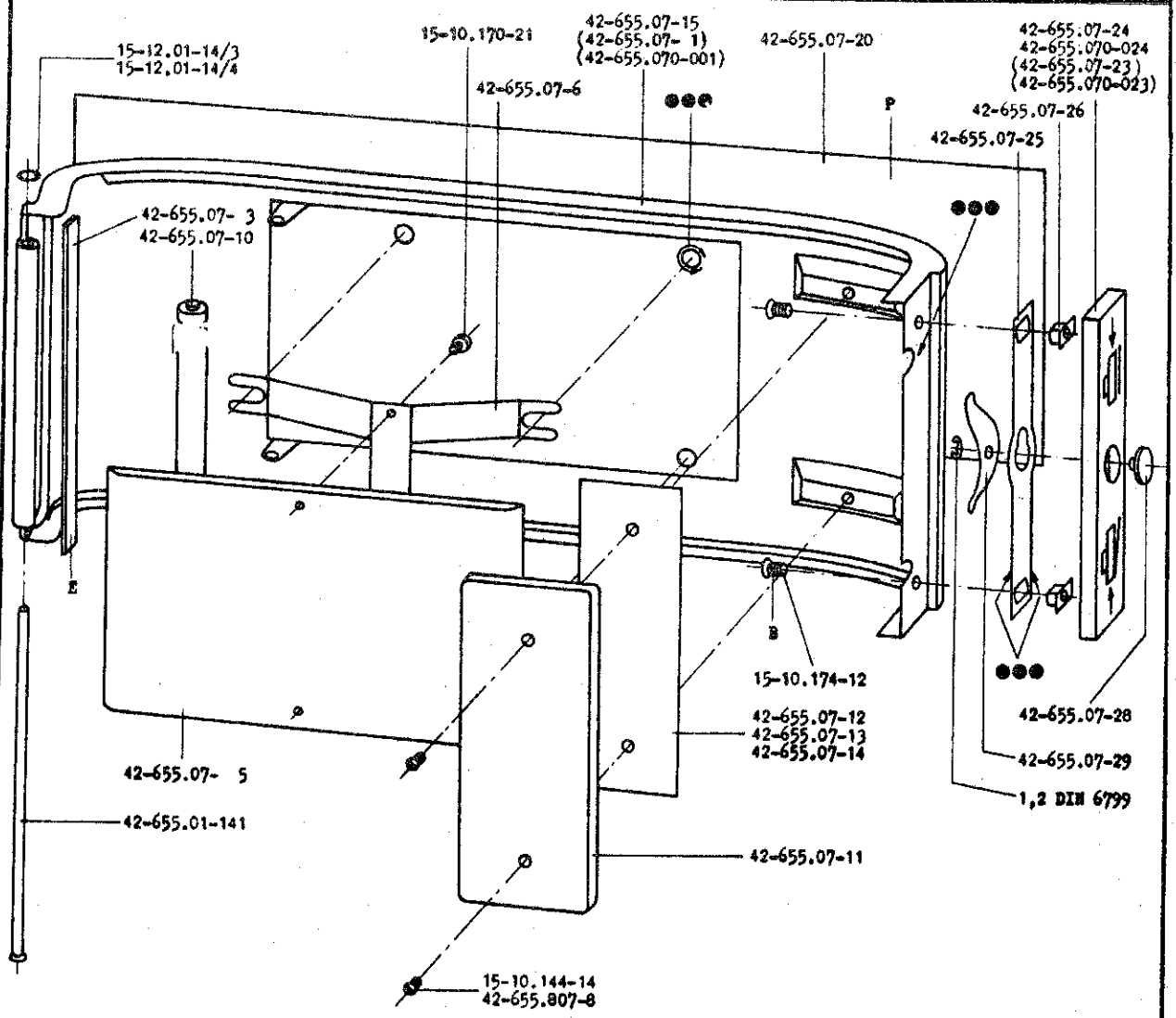
Ausgangszustand ... Zustand 2
original state ... state 2

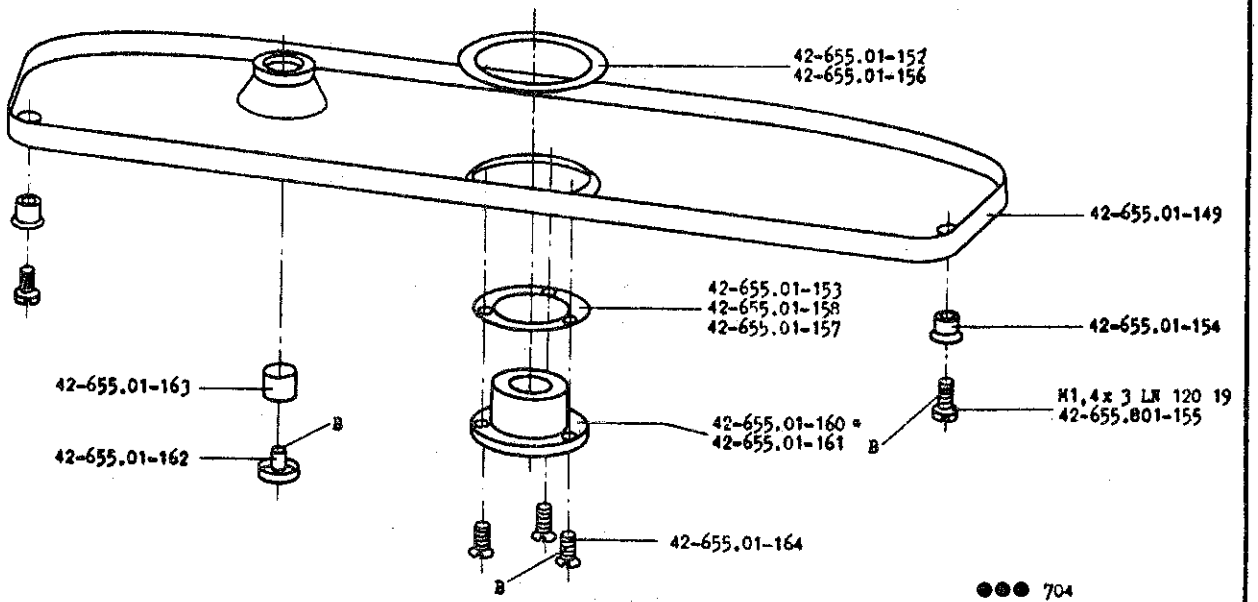
Blatt Sheet 2.1

TECHNICAL SERVICE

TECHNISCHER KUNDENDIENST

15. 3.1968





●●● 704
B Sicherungslack
P ATLAS PLASTIK Kleber 500
E Kleber EC 880

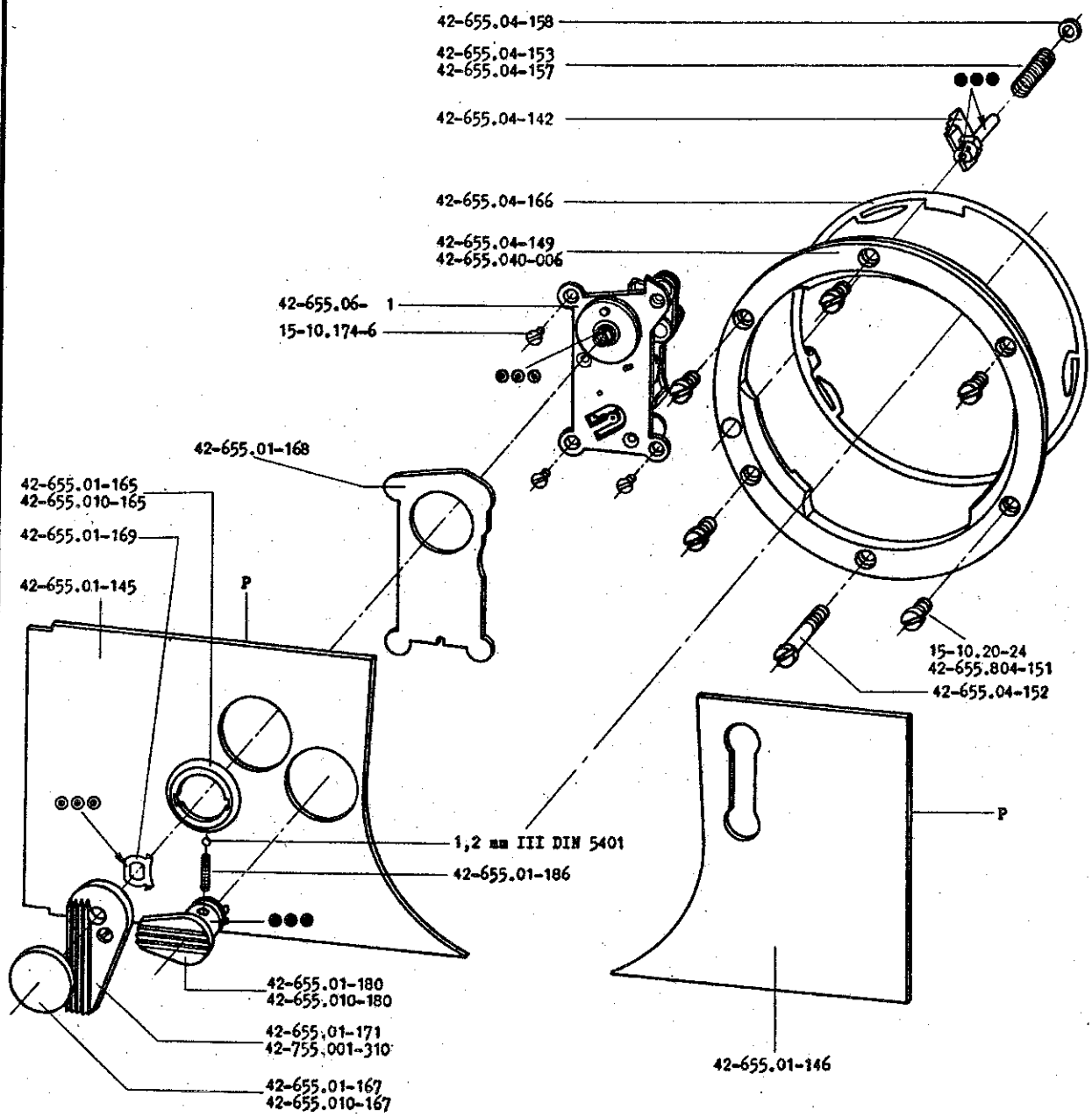
* Bei Bestellung Oberfläche angeben
when ordering please state surface

LEICAFLEX

Ausgangszustand ....
original state ...

Leitz WETZLAR

Bestell-Nr Part-No	Benennung Description	LEICAFLEX
42-655.01-145	Kunstleder-Bezug leather covering	1
42-655.01-146	Kunstleder-Bezug leather covering	1
42-655.01-165	Abdeckring, verchromt cover ring, chrom plated	1
42-655.01-167	Schraube, verchromt screw, chrom plated	1
42-655.01-168	Abdeckblech, bitte ø der Bohrung angeben cover, please state dia. of the hohle	1
42-655.01-169	Kupplung coupling piece	1
42-655.01-171	Hebel, genietet, verchromt lever, riveted, chrom plated	1
42-655.01-180	Einstellknopf, verchromt setting knob, chrom plated	1
42-655.01-186	Druckfeder spring	1
42-655.04-142	Raststift, immer in Verbindung mit 42-655.04-157 verwenden arresting pin, to use always in connection with 42-655.04-157	1
42-655.04-149	Bajonettring, verchromt bayonet ring, chrom plated	1
42-655.04-152	Zylinderschraube, verchromt cylindrical head screw, chrome-plated	1
42-655.04-153	Druckfeder, Innen ø = 2,2 mm (alte Ausführung) spring, inner dia = 2.2 mm (old type)	1
42-655.04-157	Druckfeder, Innen ø = 1,8 mm spring, inner dia = 1.8 mm	1
42-655.04-158	Ring, bei Bedarf bis Zustand 2 ring, when needed up to state 2	1
42-655.04-166	Bajonettfeder bayonet spring	1
~~42-655.06- 1~~	~~Vorlaufwerk, kompl.~~ nicht mehr lieferbar, bei Bedarf 42-755.006-001 verwenden. (Wird anstelle des alten Vorlaufwerkes 42-655.06-1 ein neues Vorlaufwerk 42-755.006-001 eingebaut, so muß ein neues Abdeckblech 42-655.01-168 mit Bohrung 11,1 mm ø verwendet werden. Der Abdeckring 42-655.01-165 entfällt dann) ~~delayed action mechanism, compl.~~ no longer available, when needed use 42-755.006-001. (In case a new delayed action mechanism 42-755.006-001 is used in place of the old one 42-655.06-1 a new cover 42-655.01-168 with a hohle of 11.1 mm dia. is to be fixed. The cover ring 42-655.01-165 is no longer needed)	1
42-655.010-165	Abdeckring, schwarz lackiert cover ring, black lacquered	1
42-655.010-167	Schraube, schwarz lackiert screw, black lacquered	1
42-655.010-180	Einstellknopf, schwarz lackiert setting knob, black lacquered	1
42-655.040-006	Bajonettring, schwarz bayonet ring, black	1
42-655.804-151	Zylinderschraube, verchromt M 2,3 bei Bedarf cylindrical head screw, chrome-plated M2.3 when needed	1
42-755.001-310	Hebel, genietet, schwarz lackiert lever, rivet, black lacquered	1
42-755.006-001	Vorlaufwerk, kompl. delayed action mechanism, compl.	1
1,2 mm III DIN 5401	Stahlkugel ball	1
15-10.174- 6	Senkschraube, brüniert / countersunk screw, burnished	3
15-10.20 -24	Zylinderschraube, verchromt, M2 cylindrical head screw, chrome-plated, M 2	5



602
704
P ATLAS PLASTIK Kleber 500

Bestell-Nr Part-No	Benennung Description	LEICAFLEX
M 1,7 x 5 LN 120 19	Zylinderschraube mit kleinem Kopf, brüniert, M 1,7 cylindrical head screw with small head, burnished, M1.7	1
15-10.140-21	Schraube, brüniert screw, burnished	2
15-10.174- 5	Senkschraube, brüniert countersunk screw, burnished	1
A 0,5 x 0,25 DIN 40 620 N sw	Isolierschlauch, schwarz, 1 m lang insulation tube, black, 1 m long	
B 2 x 0,25 DIN 40 621 N rt	Isolierschlauch, rot, 1 m lang insulation tube, red, 1 m long	
Lify 1 x 0,05 mm² bl	Litze, blau, 1 m lang flexible wire, blue, 1 m long	
Lify 1 x 0,05 mm² ge	Litze, gelb, 1 m lang flexible wire, yellow, 1 m long	
Lify 1 x 0,05 mm² rt	Litze, rot, 1 m lang flexible wire, red, 1 m long	
M 6325 / 2x3	Nietlötöse, versilbert soldering tab, silver plated	
56 Ω 0,3 W ± 5 % 5 DIN 41 424 68 Ω 0,3 W ± 5 % 5 DIN 41 424 82 Ω 0,3 W ± 5 % 5 DIN 41 424 91 Ω 0,3 W ± 5 % 5 DIN 41 424 100 Ω 0,3 W ± 5 % 5 DIN 41 424 160 Ω 0,3 W ± 5 % 5 DIN 41 424 180 Ω 0,3 W ± 5 % 5 DIN 41 424 200 Ω 0,3 W ± 5 % 5 DIN 41 424 220 Ω 0,3 W ± 5 % 5 DIN 41 424 240 Ω 0,3 W ± 5 % 5 DIN 41 424 300 Ω 0,3 W ± 5 % 5 DIN 41 424 330 Ω 0,3 W ± 5 % 5 DIN 41 424 390 Ω 0,3 W ± 5 % 5 DIN 41 424 430 Ω 0,3 W ± 5 % 5 DIN 41 424 470 Ω 0,3 W ± 5 % 5 DIN 41 424 510 Ω 0,3 W ± 5 % 5 DIN 41 424	Schichtwiderstand, axial, Reihe E 24 je nach Meßergebnis wird 1 Stück von 56 bis 510 Ω benötigt layer resistance, axial, table E 24 according to the respective measurement result, 1 piece 56 to 510 Ω is required	

TECHNISCHER KUNDENDIENST

LEICAFLEX

Ausgangszustand .... Zustand 1
original state ... state 1

Leitz WETZLAR

Bestell-Nr / Part-No	Benennung / Description	LEICAFLEX
42-655.01-242	Fotowiderstand, kompl. photo resistance, compl.	1
42-655.01-244	Zylinderschraube, brüniert cylindrical head screw, burnished	1
42-655.01-246	Hauptkörper, gekittet main body, cemented	1
42-655.01-253	Kontaktfeder contact spring	1
42-655.01-254	Dichtung packing	1
42-655.01-255	Scheibe washer	1
42-655.01-256	Kontaktring, nur in Verbindung mit M 6325/2x3 und M 1,4x4 DIN 63 verwenden contact ring, to use only in connection with M 6325/2x3 and M 1,4x4 DIN 65	1 1
42-655.01-261	Kontaktfeder, mont. contact spring, ass.	1
42-655.01-266	Kontaktfeder contact spring	1
42-655.01-267	Träger supporting beam	1
42-655.01-270	Aperturblende 3,5 mm ø, nach Bedarf aperture diaphragm 3.5 mm dia., when needed	1
42-655.01-271	Aperturblende 4 mm ø, nach Bedarf aperture diaphragm 4 mm dia., when needed	1
42-655.01-272	Linse lens	1
42-655.01-273	Rahmen frame	1
42-655.01-275	Aperturblende 3 mm ø, nach Bedarf aperture diaphragm 3 mm dia., when needed	1
42-655.01-276	Fotowiderstand photo resistance	1
42-655.01-280	Klemmfeder clamping spring	1
42-655.01-290	Abdeckung, verchromt / cover, chrom plated	1
42-655.010-290	Abdeckung, schwarz lackiert / cover, black lacquered	
42-655.801-244	Zylinderschraube, brüniert, M2, bei Bedarf cylindrical head screw, burnished, M2, when needed	1
42-655.801-268	Zylinderschraube, brüniert, M2, bei Bedarf cylindrical head screw, burnished, M2, when needed	1
42-655.801-269	Zylinderschraube, brüniert, M2, bei Bedarf cylindrical head screw, burnished, M2, when needed	1
42-655.801-274	Senkschraube, brüniert, M2, bei Bedarf countersunk screw, burnished, M2, when needed	2
303-099.054-001	Schichtdrehwiderstand / stratified resistance	2
M 1,4x4 DIN 63	Senkschraube, brüniert / countersunk screw, burnished	1
M 1,7 x 4 DIN 84	Zylinderschraube, brüniert cylindrical head screw, burnished	1
M 1,7 x 7,5 DIN 84	Zylinderschraube, brüniert cylindrical head screw, burnished	1
M 2 x 5 DIN 84	Zylinderschraube, brüniert cylindrical head screw, burnished	1

Leitz
WETZLAR

LEICAFLEX

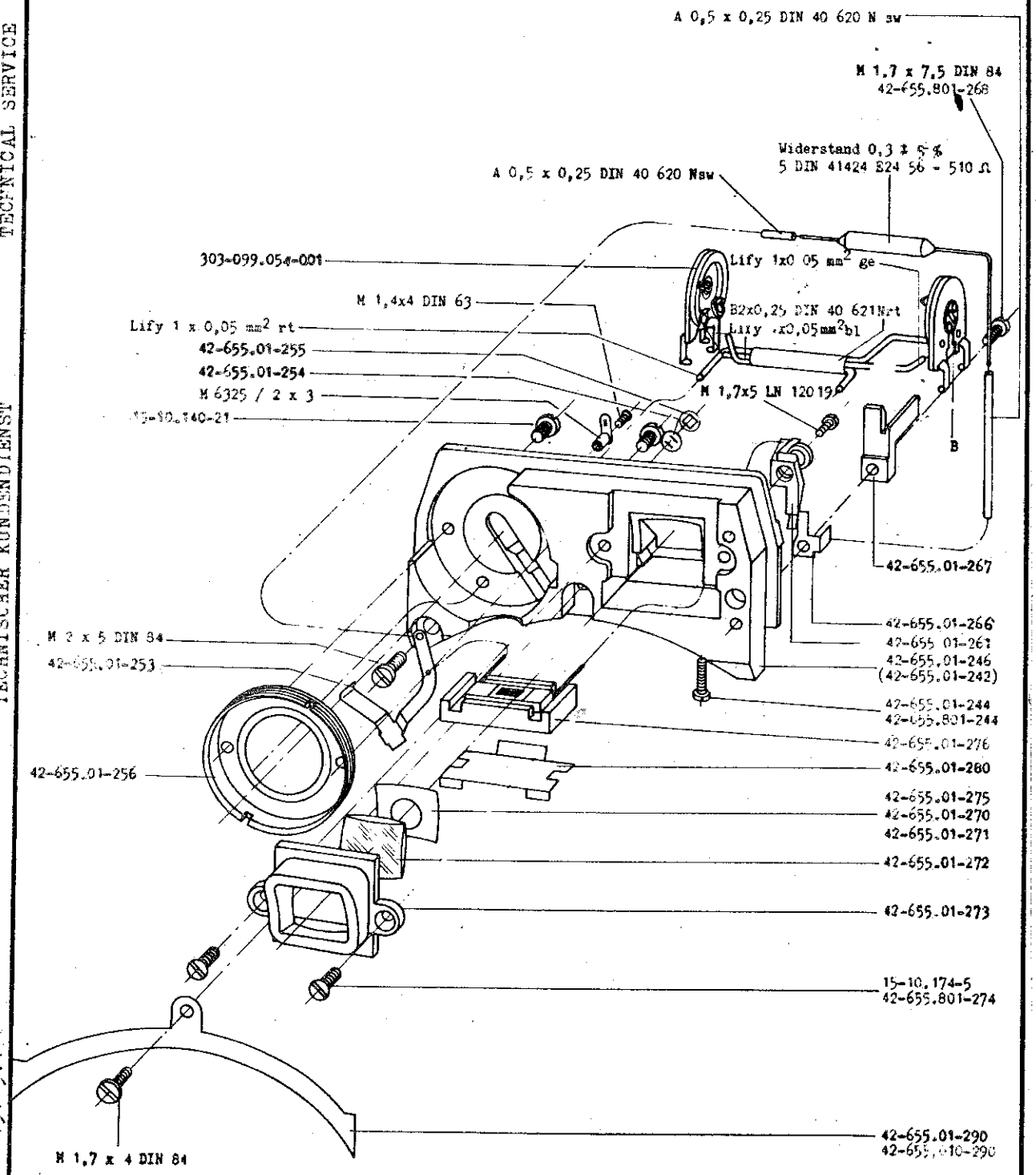
Ausgangszustand ... Zustand 1
original state ... state 1

Blatt / Sheet 4.1

TECHNICAL SERVICE

TECHNISCHER KUNDENDIENST

15. 3.1968



B Sicherungslack

Bestell-Nr Part-No	Benennung Description	LEICAFLEX
M 2 x 5 DIN 84	Zylinderschraube, brüniert cylindrical head screw, burnished	1
15-10.140-21	Schraube, brüniert screw, burnished	2
15-10.174- 5	Senkschraube, brüniert, M 1,7 countersunk screw, burnished, M 1.7	2
A 0,5 x 0,25 DIN 40 620 N sw	Isolierschlauch, schwarz, 1 m lang insulation tube, black, 1 m long	
B 2 x 0,25 DIN 40 621 N rt	Isolierschlauch, rot, 1 m lang insulation tube, red, 1 m long	
B 3 x 0,4 DIN 40 621 N sw	Isolierschlauch, schwarz, 1 m lang insulation tube, black, 1m long	
Lify 1 x 0,05 mm² ge	Litze, gelb, 1 m lang flexible wire, yellow, 1 m long	
Lify 1 x 0,05 mm² rt	Litze, rot, 1 m lang flexible, red, 1 m long	
Lify 1 x 0,05 mm² sw	Litze, schwarz, 1 m lang flexible, black, 1 m long	
M 6325/2 x 3	Nietlötöse, versilbert soldering tab, silver plated	1
0,82 kΩ 0,3 W ± 5 % 5 DIN 41 424 1 kΩ 0,3 W ± 5 % 5 DIN 41 424 1,2 kΩ 0,3 W ± 5 % 5 DIN 41 424 1,5 kΩ 0,3 W ± 5 % 5 DIN 41 424 1,8 kΩ 0,3 W ± 5 % 5 DIN 41 424 2,2 kΩ 0,3 W ± 5 % 5 DIN 41 424	Schichtwiderstand, axial, Reihe E12 je nach Meßergebnis wird 1 Stück von 0,82 bis 2,2 kΩ benötigt. layer resistance, axial, table E12 according to the respective measurement result, 1 piece 0.82 to 2.2 kΩ is required	
56 Ω 0,3 W ± 5 % 5 DIN 41 424 68 Ω 0,3 W ± 5 % 5 DIN 41 424 82 Ω 0,3 W ± 5 % 5 DIN 41 424 91 Ω 0,3 W ± 5 % 5 DIN 41 424 100 Ω 0,3 W ± 5 % 5 DIN 41 424 160 Ω 0,3 W ± 5 % 5 DIN 41 424 180 Ω 0,3 W ± 5 % 5 DIN 41 424 200 Ω 0,3 W ± 5 % 5 DIN 41 424 220 Ω 0,3 W ± 5 % 5 DIN 41 424 240 Ω 0,3 W ± 5 % 5 DIN 41 424 300 Ω 0,3 W ± 5 % 5 DIN 41 424 330 Ω 0,3 W ± 5 % 5 DIN 41 424 390 Ω 0,3 W ± 5 % 5 DIN 41 424 430 Ω 0,3 W ± 5 % 5 DIN 41 424 470 Ω 0,3 W ± 5 % 5 DIN 41 424 510 Ω 0,3 W ± 5 % 5 DIN 41 424	Schichtwiderstand, axial, Reihe E 24 je nach Meßergebnis wird 1 Stück von 56 bis 510 Ω benötigt layer resistance, axial, table E 24 according to the respective measurement result, 1 piece 56 to 510 Ω is required	

TECHNISCHER KUNDENDIENST

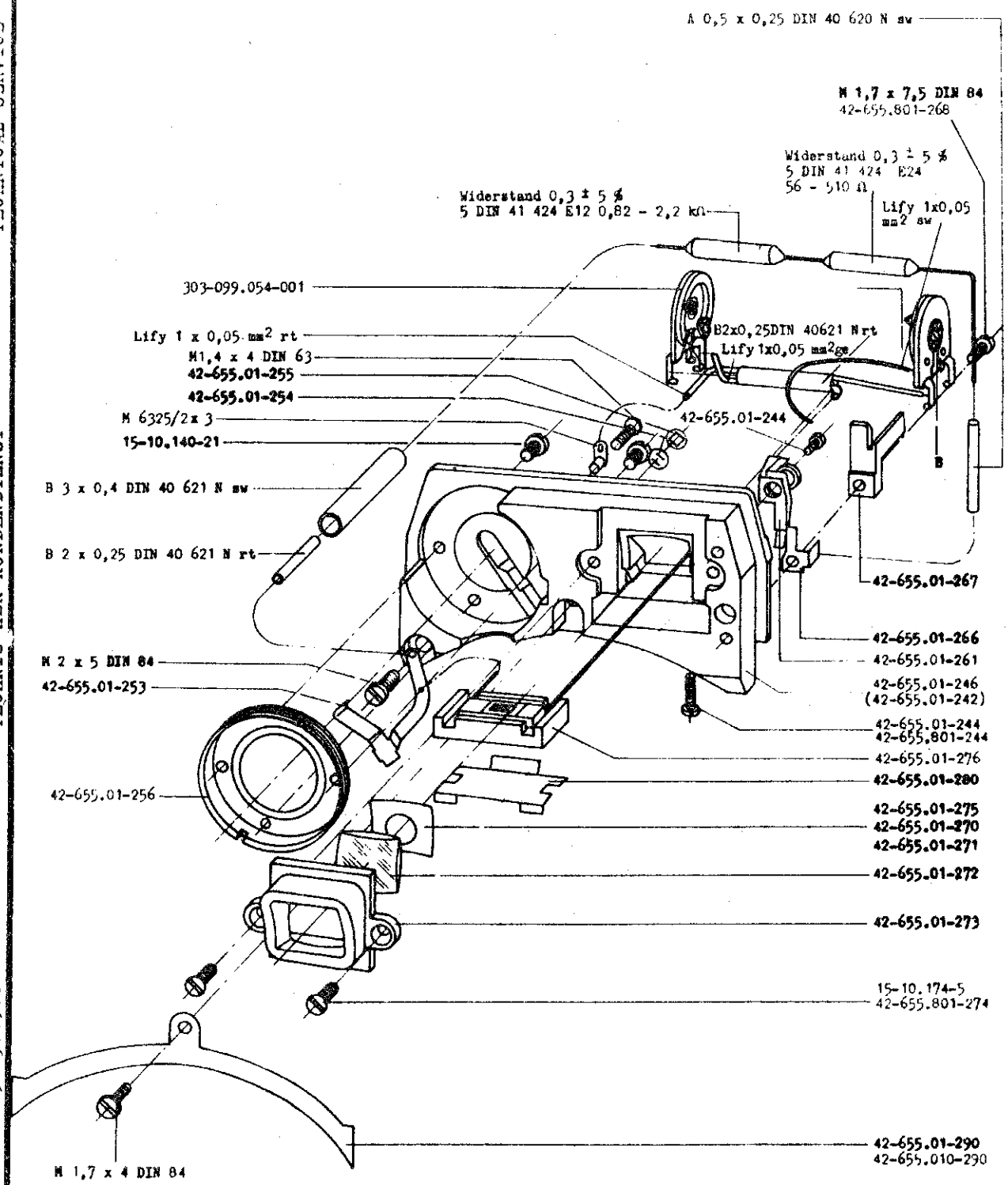
LEICAFLEX

Zustand 2
state 2

Leitz WETZLAR

Bestell-Nr Part-No	Benennung Description	LEICAFLEX
42-655.01-242	Fotowiderstand, kompl. photo resistance, compl.	1
42-655.01-244	Zylinderschraube, brüniert, M 1,7 cylindrical head screw, burnished, M 1.7	1
42-655.01-246	Hauptkörper, gekittet main body, cemented	1
42-655.01-253	Kontaktfeder contact spring	1
42-655.01-254	Dichtung packing	1
42-655.01-255	Scheibe washer	1
42-655.01-256	Kontaktring contact ring	1
42-655.01-261	Kontaktfeder, mont. contact spring, ass.	1
42-655.01-266	Kontaktfeder contact spring	1
42-655.01-267	Träger supporting beam	1
42-655.01-270	Aperturblende 3,5 mm ø, nach Bedarf aperture diaphragm 3.5 mm dia., when needed	1
42-655.01-271	Aperturblende 4 mm ø, nach Bedarf aperture diaphragm 4 mm dia, when needed	1
42-655.01-272	Linse lens	1
42-655.01-273	Rahmen frame	1
42-655.01-275	Aperturblende 3 mm ø, nach Bedarf aperture diaphragm 3 mm dia., when needed	1
42-655.01-276	Fotowiderstand photo resistance	1
42-655.01-280	Klemmfeder clamping spring	1
42-655.01-290	Abdeckung, verchromt / cover, chrom-plated	1
42-655.010-290	Abdeckung, schwarz lackiert / cover, black lacquered	
42-655.801-244	Zylinderschraube, brüniert, M2, bei Bedarf cylindrical head screw, burnished, M2, when needed	2
42-655.801-268	Zylinderschraube, brüniert, M2, bei Bedarf cylindrical head screw, burnished, M2, when needed	1
42-655.801-274	Senkschraube, brüniert, M2, bei Bedarf countersunk screw, burnished, M2, when needed	2
303-099.054-001	Schichtdrehwiderstand stratified resistance	2
M1,4 x 4 DIN 63	Senkschraube, brüniert countersunk screw, burnished	1
M1,7 x 4 DIN 84	Zylinderschraube, brüniert cylindrical head screw, burnished	1
M1,7 x 7,5 DIN 84	Zylinderschraube, brüniert, M 1,7 cylindrical head screw, burnished, M 1.7	1

TECHNISCHER KUNDENDIENST
TECHNICAL SERVICE
15. 3.1966



B Sicherungslack

Bestell-Nr / Part-No	Benennung / Description	LEICAFLEX
15-10.174- 5	Senkschraube, brüniert, M 1,7 countersunk screw, burnished, M 1.7	1
15-10.174-12	Senkschraube, brüniert, M 1,7 countersunk screw, burnished, M 1.7	1
B 0,8 x 0,25 DIN 40 621 nf	Isolierschlauch, transparent, 1 m lang insulation tube, transparent, 1 m long	
B 1,5 x 0,25 DIN 40 621 rt	Isolierschlauch, rot, 1 m lang insulation tube, red, 1 m long	
B 2,5 x 0,4 DIN 40 621 nf	Isolierschlauch, transparent, 1 m lang insulation tube, transparent, 1 m long	
Lify 1 x 0,05 mm^2 ge	Litze, gelb, 1 m lang flexible wire, yellow, 1 m long	
Lify 1 x 0,05 mm^2 gn	Litze, grün, 1 m lang flexible wire, green, 1 m long	
Lify 1 x 0,05 mm^2 rt	Litze, rot, 1 m lang flexible, red, 1 m long	
2,2 kΩ 1/8 W 7B 10 % DIN 41 424 2,7 kΩ 1/8 W 7B 10 % DIN 41 424 3,3 kΩ 1/8 W 7B 10 % DIN 41 424 3,9 kΩ 1/8 W 7B 10 % DIN 41 424 4,7 kΩ 1/8 W 7B 10 % DIN 41 424 5,6 kΩ 1/8 W 7B 10 % DIN 41 424 6,8 kΩ 1/8 W 7B 10 % DIN 41 424 8,2 kΩ 1/8 W 7B 10 % DIN 41 424 10 kΩ 1/8 W 7B 10 % DIN 41 424 12 kΩ 1/8 W 7B 10 % DIN 41 424 15 kΩ 1/8 W 7B 10 % DIN 41 424 18 kΩ 1/8 W 7B 10 % DIN 41 424	Schichtwiderstand, axial, Reihe E 12. Klasse 2 je nach Meßergebnis wird 1 Stück von 2,2 kΩ bis 18 kΩ benötigt layer resistance, axial, table E 12, class 2 according to the respective measurement result, 1 piece 2.2 kΩ to 18 kΩ required	
56 Ω 1/8 W 6A 10 % DIN 41 424 68 Ω 1/8 W 6A 10 % DIN 41 424 82 Ω 1/8 W 6A 10 % DIN 41 424 91 Ω 1/8 W 6A 10 % DIN 41 424 100 Ω 1/8 W 6A 10 % DIN 41 424 160 Ω 1/8 W 6A 10 % DIN 41 424 180 Ω 1/8 W 6A 10 % DIN 41 424 200 Ω 1/8 W 6A 10 % DIN 41 424 220 Ω 1/8 W 6A 10 % DIN 41 424 240 Ω 1/8 W 6A 10 % DIN 41 424 300 Ω 1/8 W 6A 10 % DIN 41 424 330 Ω 1/8 W 6A 10 % DIN 41 424 390 Ω 1/8 W 6A 10 % DIN 41 424 430 Ω 1/8 W 6A 10 % DIN 41 424 470 Ω 1/8 W 6A 10 % DIN 41 424 510 Ω 1/8 W 6A 10 % DIN 41 424	Schichtwiderstand, axial, Reihe E 24, Klasse 2 je nach Meßergebnis wird 1 Stück von 56 bis 510 Ω benötigt layer resistance, axial, table E 24, class 2 according to the respective measurement result, 1 piece 56 to 510 Ω is required	

TECHNISCHER KUNDENDIENST

LEICAFLEX

Zustand 3 ...
state 3 ...

Leitz WETZLAR

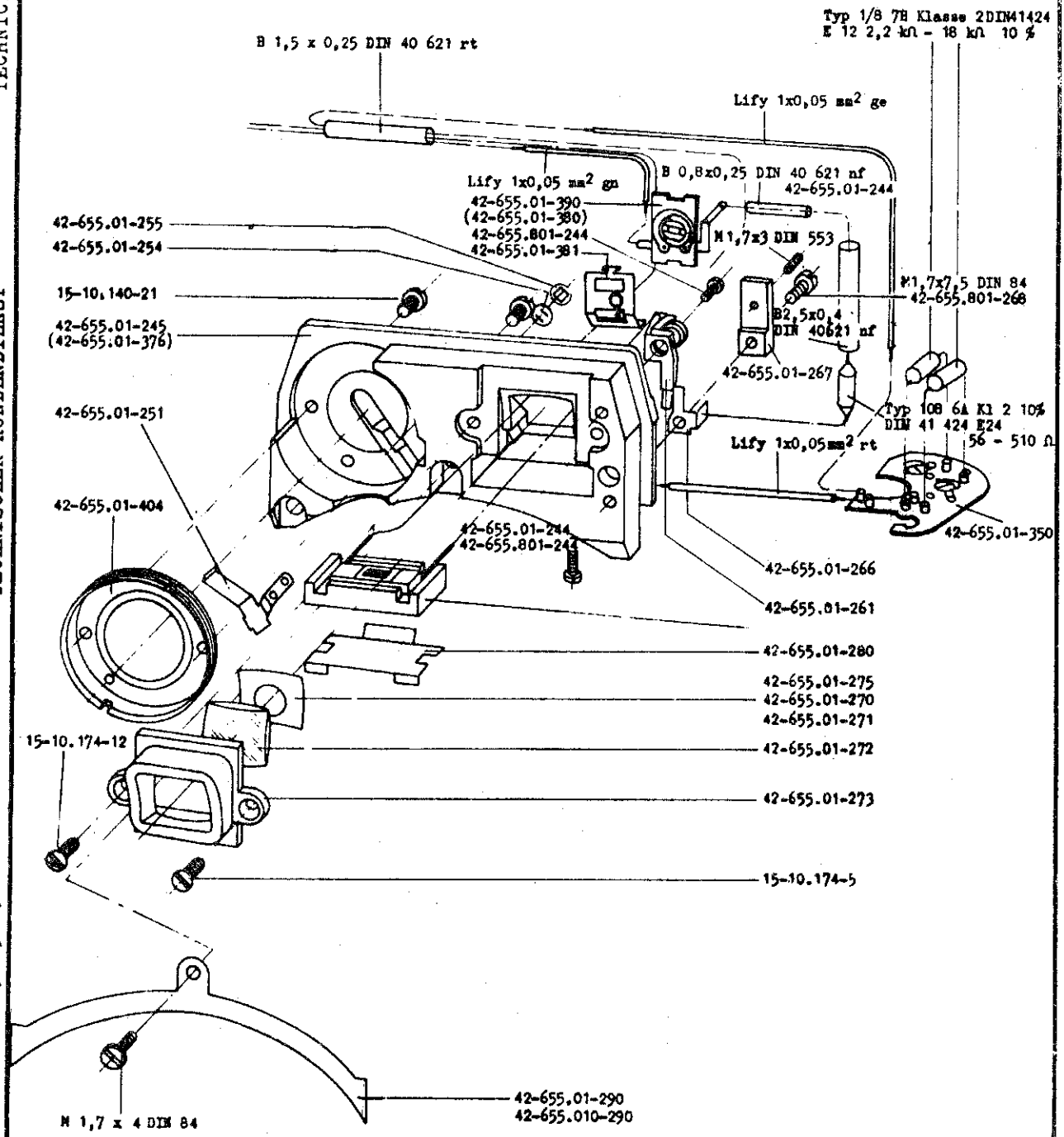
Bestell-Nr / Part-No	Benennung / Description	LEICAFLEX
42-655.01-244	Zylinderschraube M 1,7 , brüniert cylindrical head screw M 1,7 , burnished	2
42-655.01-245	Hauptkörper, gekittet main body, cemented	1
42-655.01-251	Kontaktfeder contact spring	1
42-655.01-254	Dichtung packing	1
42-655.01-255	Scheibe washer	1
42-655.01-261	Kontaktfeder, mont. contact spring, ass.	1
42-655.01-266	Kontaktfeder contact spring	1
42-655.01-267	Träger supporting beam	1
42-655.01-270	Aperturblende 3,5 mm ø, nach Bedarf aperture diaphragm 3.5 mm dia., when needed	1
42-655.01-271	Aperturblende 4 mm ø, nach Bedarf aperture diaphragm 4 mm dia., when needed	1
42-655.01-272	Linse lens	1
42-655.01-273	Rahmen frame	1
42-655.01-275	Aperturblende 3 mm ø, nach Bedarf aperture diaphragm 3 mm dia., when needed	1
42-655.01-280	Klemmfeder clamping spring	1
42-655.01-290	Abdeckung, verchromt cover, chrom-plated	1
42-655.01-305	Fotowiderstand, Untergr. photo resistance, sub-group	1
42-655.01-350	Gedruckte Schaltung / printed circuit	1
42-655.01-376	Fotowiderstand, kompl. photo resistance, compl.	1 1
42-655.01-380	Potentiometer, kompl. potentiometer, compl.	1 1
42-655.01-381	Halter / holder	1
42-655.01-390	Potentiometer, mont. potentiometer, ass.	1
42-655.01-404	Kontaktring, genietet / contact ring, riveted	1
42-655.010-290	Abdeckung, schwarz lackiert / cover, black lacquered	
42-655.801-244	Zylinderschraube, brüniert, M2, bei Bedarf cylindrical head screw, burnished, M2, when needed	2
42-655.801-268	Zylinderschraube, brüniert, M2, bei Bedarf cylindrical head screw, burnished, M2, when needed	1
M 1,7 x 4 DIN 84	Zylinderschraube, brüniert y indrical head screw, burnished	1
M 1,7 x 7,5 DIN84	Zylinderschraube, brüniert cylindrical head screw, burnished	1
M 1,7 x 3 DIN 553	Gewindestift, brüniert / grub screw, burnished	1
15-10.140-21	Schraube, brüniert, M 1,4 / screw, burnished, M 1.4	2

TECHNICAL SERVICE

TECHNISCHER KUNDENDIENST

15. 3.1968

TECHNICAL SERVICE
TECHNISCHER KUNDENDIENST
15. 3. 1968



Bestell-Nr Part-No	Benennung Description	LEICAFLEX
42-655.801-220	Zylinderschraube, brüniert M2, bei Bedarf cylindrical head screw, burnished M2, when needed	2
M1,7 x 3 DIN 84	Zylinderschraube, brüniert cylindrical head screw, burnished	2
M1,7 x 6 DIN 84	Zylinderschraube, brüniert M 1,7 cylindrical head screw, burnished M 1.7	2
M1,4x1,6x1,6 DIN 926	Gewindestift, brüniert, ab Zustand 3 grub screw, burnished, up to state 3	1
M1,4x2x1,2 DIN 926	Gewindestift, brüniert, bis Zustand 2 grub screw, burnished, up to state 2	1
0,8 DIN 6799	Sicherungsscheibe C-clip	1
15-10.140-13	Schraube, brüniert M 1,4 screw, burnished M 1,4	2

TECHNISCHER KUNDENDIENST

LEICAFLEX

Ausgangszustand ...
original state ...

Leitz WETZLAR

Bestell-Nr Part-No	Benennung Description	LEICAFLEX
42-655.01-188	Prismenhalter, mont. mit allen auf diesem Blatt verzeichneten Teilen prism holder, ass. of all parts shown on this page	1
42-655.01-189	Prismenhalter, mont. wie 42-655.01-188 jedoch ohne die oberhalb von 42-655.01-223 dargestellten Teile prism holder, ass. as 42-655.01-188 but without the parts shown above 42-655.01-223	1
42-655.01-190	Prismenhalter, genietet prism holder, riveted	1
42-655.01-192	Schraube, brüniert, M 1,7 screw, burnished, M1.7	1
42-655.01-193	Dichtungsstreifen / packing strip	1
42-655.01-194	Puffer, nach Bedarf / buffer, when needed	2
42-655.01-195	Rolle roll	1
42-655.01-199	Feder spring	1
42-655.01-200	Führungsleiste, bis Zustand 2 verwenden guide ledge, to use up to state 2	1
42-655.01-202	Zeiger / pointer	1
42-655.01-203	Führungsleiste, ab Zustand 3 verwenden guide ledge, to use from state 3 onwards	1
42-655.01-204	Rolle / roll	1
42-655.01-210	Federhaus mit Seil spring pulley with cord	1
42-655.01-211	Federhaus spring pulley	1
42-655.01-212	Seil ca. 160 mm lang cord ca. 160 mm long	1
42-655.01-213	Abstandstück, geklebt intermediate piece, glued	1
42-655.01-217	Pentaprisma „Penta" prism	1
42-655.01-218	Schutzleiste protection strip	1
42-655.01-219	Feder spring	1
42-655.01-222	Feder spring	1
42-655.01-223	Feldlinse und Fresnellinse, mont. field lens and „Fresnel" lens, ass.	1
42-655.01-307	Scheibe, 0,03 mm dick, nach Bedarf washer, 0.03 mm thick, when needed	3
42-655.01-308	Scheibe, 0,05 mm dick, nach Bedarf washer, 0.05 mm thick, when needed	3
42-655.01-309	Scheibe, 0,08 mm dick, nach Bedarf washer, 0.08 mm thick, when needed	3
42-655.01-310	Scheibe, 0,1 mm dick, nach Bedarf washer, 0.1 mm thick, when needed	3
42-655.01-311	Scheibe, 0,2 mm dick, nach Bedarf washer, 0.2 mm thick, when needed	3
42-655.01-312	Scheibe, 0,3 mm dick, nach Bedarf washer, 0.3 mm thick, when needed	3
42-655.01-313	Scheibe, 0,5 mm dick, nach Bedarf washer, 0.3 mm thick. when needed	3
42-655.801-192	Schraube, brüniert M 1,7, bei Bedarf screw, burnished M 1.7, when needed	2
42-655.801-201	Schraube, brüniert M2, bei Bedarf screw, burnished M2, when needed	1

TECHNISCHER KUNDENDIENST
TECHNICAL SERVICE
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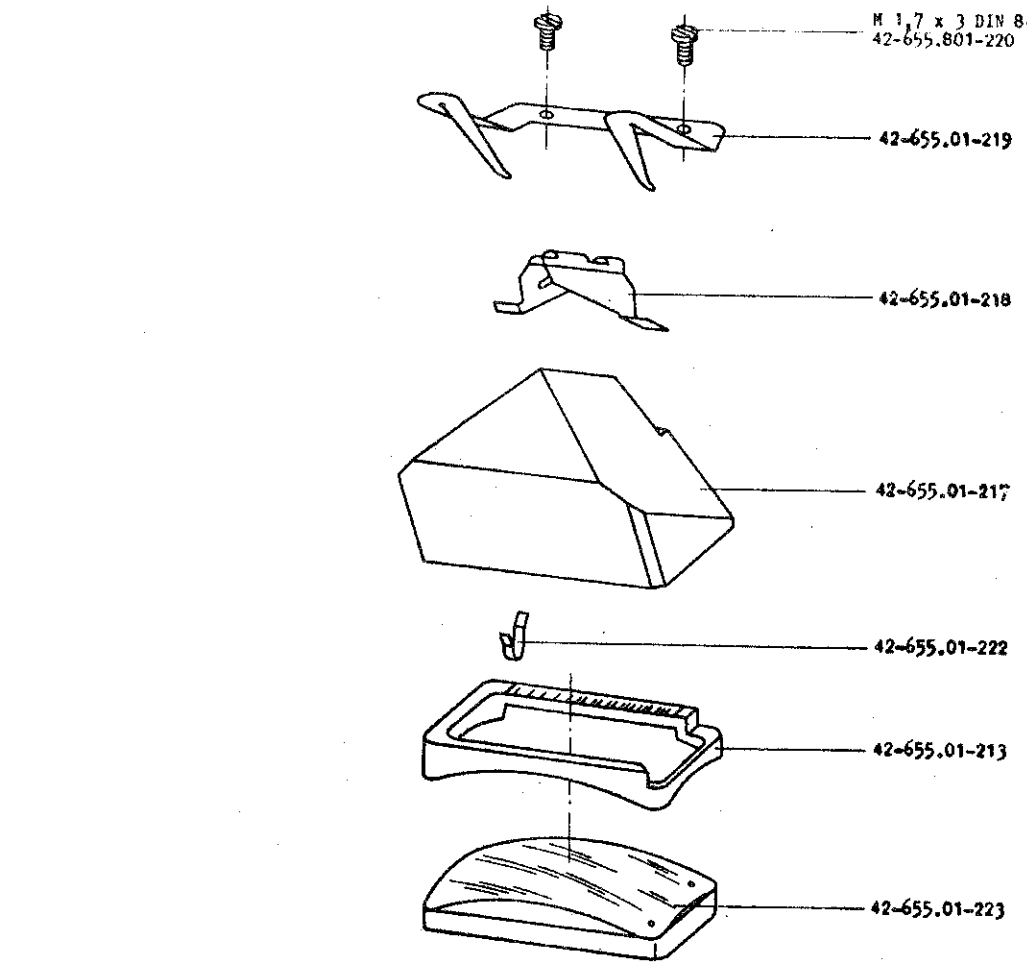

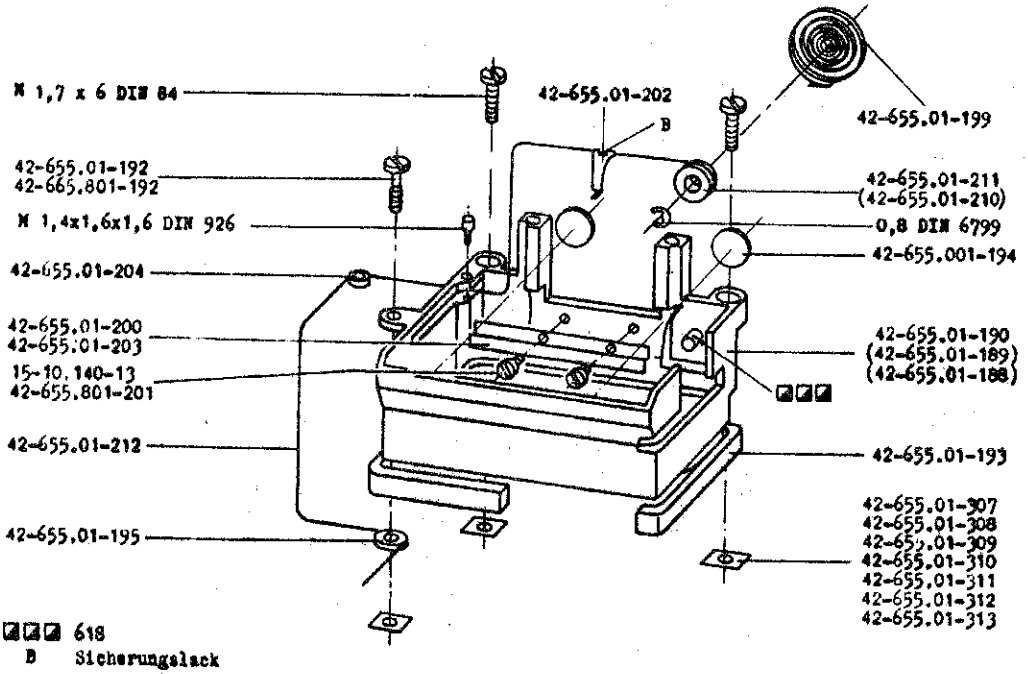

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B Sicherungslack

Bestell-Nr Part-No	Benennung Description	LEICAFLEX
15-12.01-14/2	Scheibe 0,1 mm dick, bei Bedarf washer 0.1 mm thick, when needed	1

TECHNISCHER KUNDENDIENST

LEICAFLEX

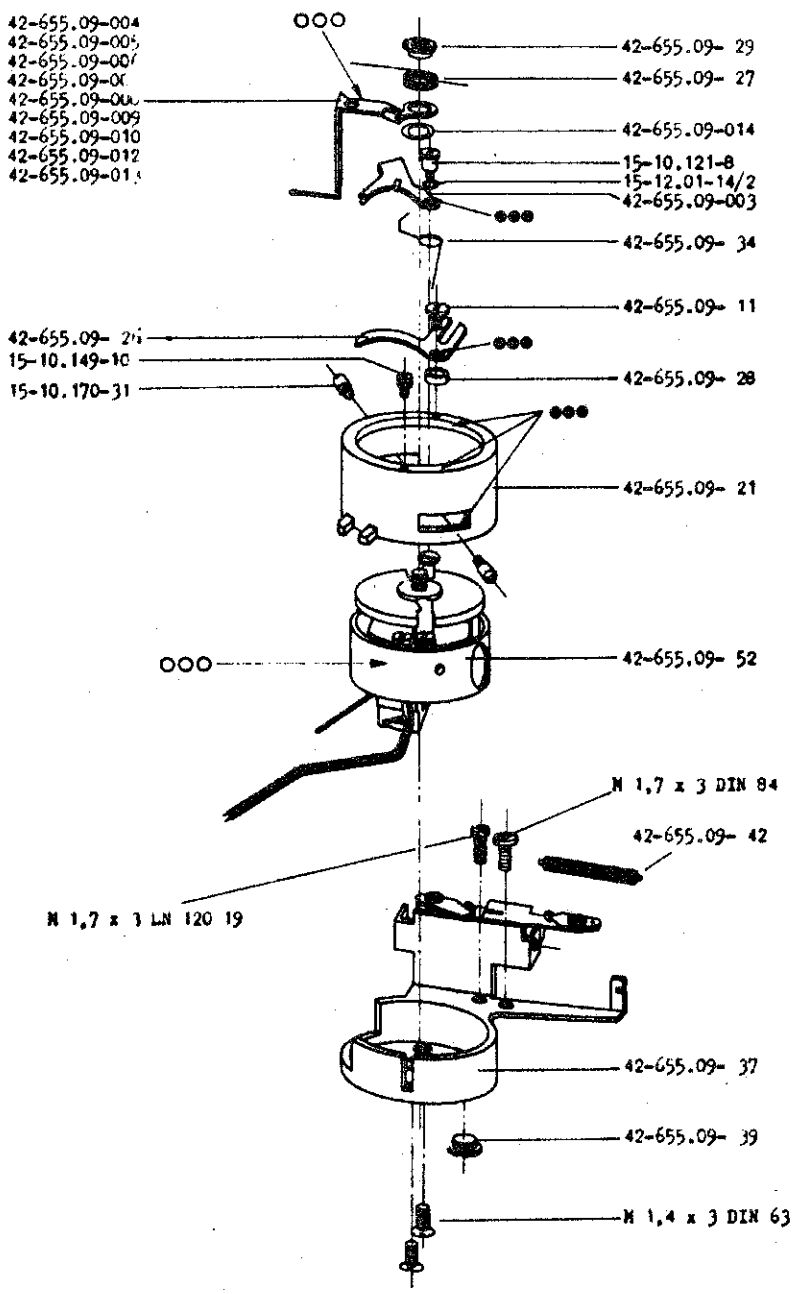
Ausgangszustand ... Zustand 1
original state ... state 1

Leitz WETZLAR

Bestell-Nr Part-No	Benennung Description	LEICAFLEX
42-655.09-003	Führungshebel guide lever	1
42-655.09-004	Zeiger „OO", nach Bedarf pointer „OO", when needed	1
42-655.09-005	Zeiger „AO", nach Bedarf pointer „AO", when needed	1
42-655.09-006	Zeiger „BO", nach Bedarf pointer „BO", when needed	1
42-655.09-007	Zeiger „OC", nach Bedarf pointer„OC", when needed	1
42-655.09-008	Zeiger „OD", nach Bedarf pointer „OD", when needed	1
42-655.09-009	Zeiger „AC", nach Bedarf pointer „AC", when needed	1
42-655.09-010	Zeiger „BD", nach Bedarf pointer „BD", when needed	1
42-655.09- 11	Schraube screw	1
42-655.09-012	Zeiger „AD", nach Bedarf pointer „AD", when needed	1
42-655.09-013	Zeiger „BC", nach Bedarf pointer „BC", when needed	1
42-655.09-014	Scheibe washer	1
42-655.09- 21	Schutzkappe cover	1
42-655.09- 26	Nachführhebel lever	1
42-655.09- 27	Schenkelfeder spring	1
42-655.09- 28	Ring ring	1
42-655.09- 29	Mutter nut	1
42-655.09- 34	Schenkelfeder spring	1
42-655.09- 37	Gehäuse, Untergr. Bei Verwendung eines neuen Gehäuses muß ein neuer Nachführhebel 42-655.09-126 montiert werden. housing, sub group In case a new housing is to be mounted a new lever 42-655.09-126 is required	1
42-655.09- 39	Schraube screw	1
42-655.09- 42	Zugfeder spring	1
42-655.09- 52	Meßwerk, mont. measuring device, ass.	1
M 1,4 x 3 DIN 63	Senkschraube, blau gebeizt countersunk screw, blue corroded	2
M 1,7 x 3 DIN 84	Zylinderschraube, Messing cylindrical head screw, brass	1
M1,7x3 LN 120 19	Zylinderschraube, Messing cylindrical head screw, brass	1
15-10.121-8	Ansatzschraube, dunkel gebeizt shoulder screw, dark corroded	1
15-10.149-10	Anschlagschraube, brüniert stop screw, burnished	1
15-10.170-31	Schraube, brüniert screw, burnished	2

TECHNISCHER KUNDENDIENST TECHNICAL SERVICE

15. 3.1968



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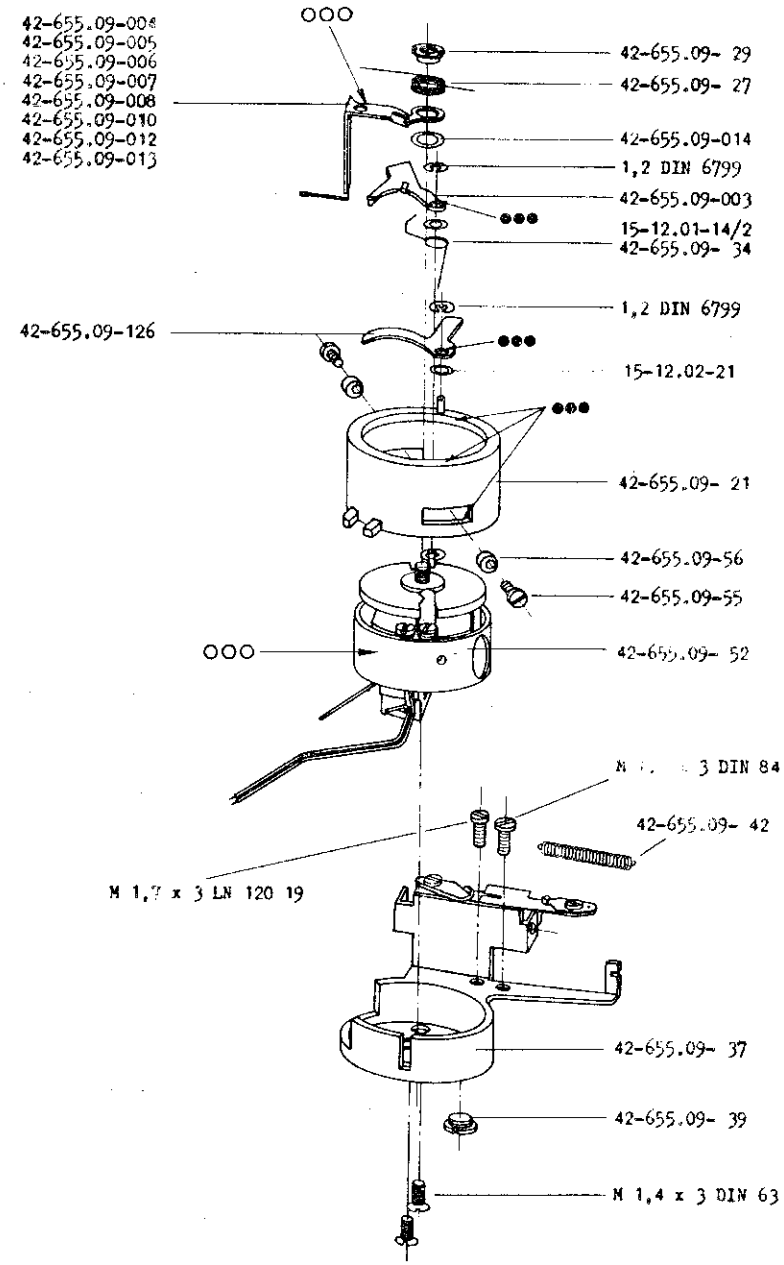
LEICAFLEX

Zustand 2 ... / state 2 ...

Leitz WETZLAR

Bestell-Nr / Part-No	Benennung / Description	LEICAFLEX
42-655.09-003	Führungshebel, Untergruppe guide lever, sup grup	1
42-655.09-004	Zeiger „OO", nach Bedarf pointer „OO", when needed	1
42-655.09-005	Zeiger „AO", nach Bedarf pointer „AO", when needed	1
42-655.09-006	Zeiger „BO", nach Bedarf pointer „BO", when needed	1
42-655.09-007	Zeiger „OC", nach Bedarf pointer „OC", when needed	1
42-655.09-008	Zeiger „OD", nach Bedarf pointer „OD", when needed	1
42-655.09-009	Zeiger „AC", nach Bedarf pointer „AC", when needed	1
42-655.09-010	Zeiger „BD", nach Bedarf pointer „BD", when needed	1
42-655.09-012	Zeiger „AD", nach Bedarf pointer „AD", when needed	1
42-655.09-013	Zeiger „BC", nach Bedarf pointer „BC", when needed	1
42-655.09-014	Scheibe washer	1
42-655.09- 21	Schutzkappe cover	1
42-655.09- 27	Schenkelfeder spring	1
42-655.09- 29	Mutter nut	1
42-655.09- 34	Schenkelfeder spring	1
42-655.09- 37	Gehäuse, Untergruppe housing, sub group	1
42-655.09- 39	Schraube screw	1
42-655.09- 42	Zugfeder spring	1
42-655.09- 52	Meßwerk, mont. measuring device, ass.	1
42-655.09- 55	Zylinderschraube cylindrical head screw	2
42-655.09- 56	Exzenterring eccentric ring	2
42-655.09-126	Nachführhebel lever	1
15-12.01-14/2	Scheibe, dunkel gebeizt, 0,1 mm dick, bei Bedarf washer, dark corroded, 0.1 mm thick, when needed	1
15-12.02-21	Scheibe, dunkel gebeizt, 0,05 mm dick, bei Bedarf washer, dark corroded, 0.05 mm thick, when needed	1
M 1,4 x 3 DIN 63	Senkschraube, blau gebeizt countersunk screw, blue corroded	2
M 1,7 x 3 DIN 84	Zylinderschraube, Messing cylindrical head screw, brass	1
1,2 DIN 6799	Sicherungsscheibe C-clip	2
M1,7x3 LN 120 19	Zylinderschraube, Messing cylindrical head screw, brass	1

TECHNICAL SERVICE
TECHNISCHER KUNDENDIENST
15. 3.1968



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LEICAFLEX

Ausgangszustand ...
original state ...

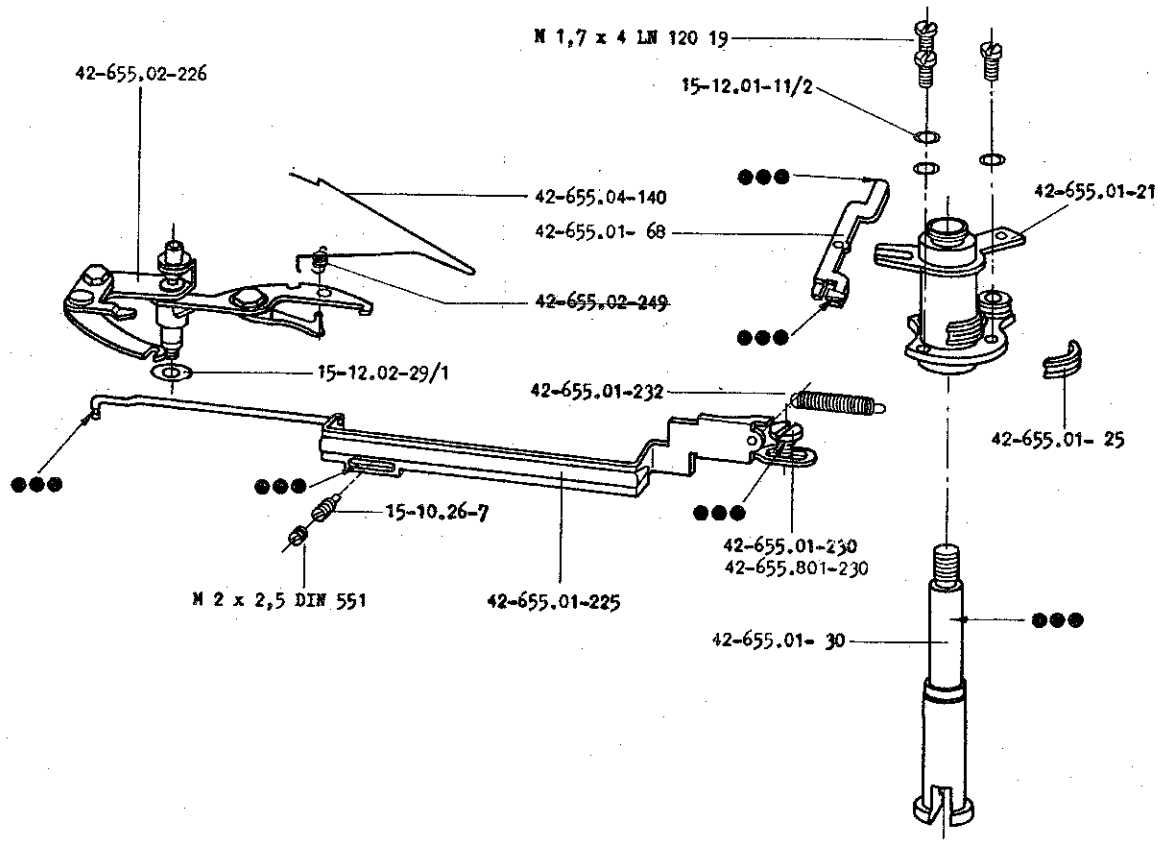
Leitz WETZLAR

Bestell-Nr Part-No	Benennung Description	LEICAFLEX
42-655.01- 21	Lager, genietet bearing, riveted	1
42-655.01- 25	Friktionsbacke brake shoe	1
42-655.01- 30	Rückwickelachse rewind spindle	1
42-655.01- 68	Hebel, genietet lever, riveted	1
42-655.01-225	Schieber, genietet slider, riveted	1
42-655.01-230	Ansatzschraube, brüniert, M 1,7 shoulder screw, burnished, M 1.7	1
42-655.01-232	Zugfeder spring	1
42-655.02-226	Einstellhebel mit Achse, mont. setting spindle with axis, ass.	1
~~42-655.02-249~~	~~Zugfeder - wird nicht benötigt~~ ~~spring - is not needed~~	1
42-655.04-140	Feder spring	1
42-655.801-230	Ansatzschraube, brüniert, M2, bei Bedarf screw, burnished, M2, when needed	1
M 2 x 2,5 DIN 551	Gewindestift, brüniert grub screw, burnished	1
M1,7 x 4 LN 120 19	Zylinderschraube, Messing cylindrical head screw, brass	3
15-10.26- 7	Gewindestift, brüniert grub screw, burnished	1
15-12.01-11/2	Scheibe, 0,2 mm dick washer, 0.2 mm thick	3
15-12.02-29/1	Scheibe, 0,2 mm dick washer 0.2 mm thick	1

TECHNICAL SERVICE — TECHNISCHER KUNDENDIENST

15. 3.1968

TECHNISCHER KUNDENDIENST
TECHNICAL SERVICE
15. 3.1968



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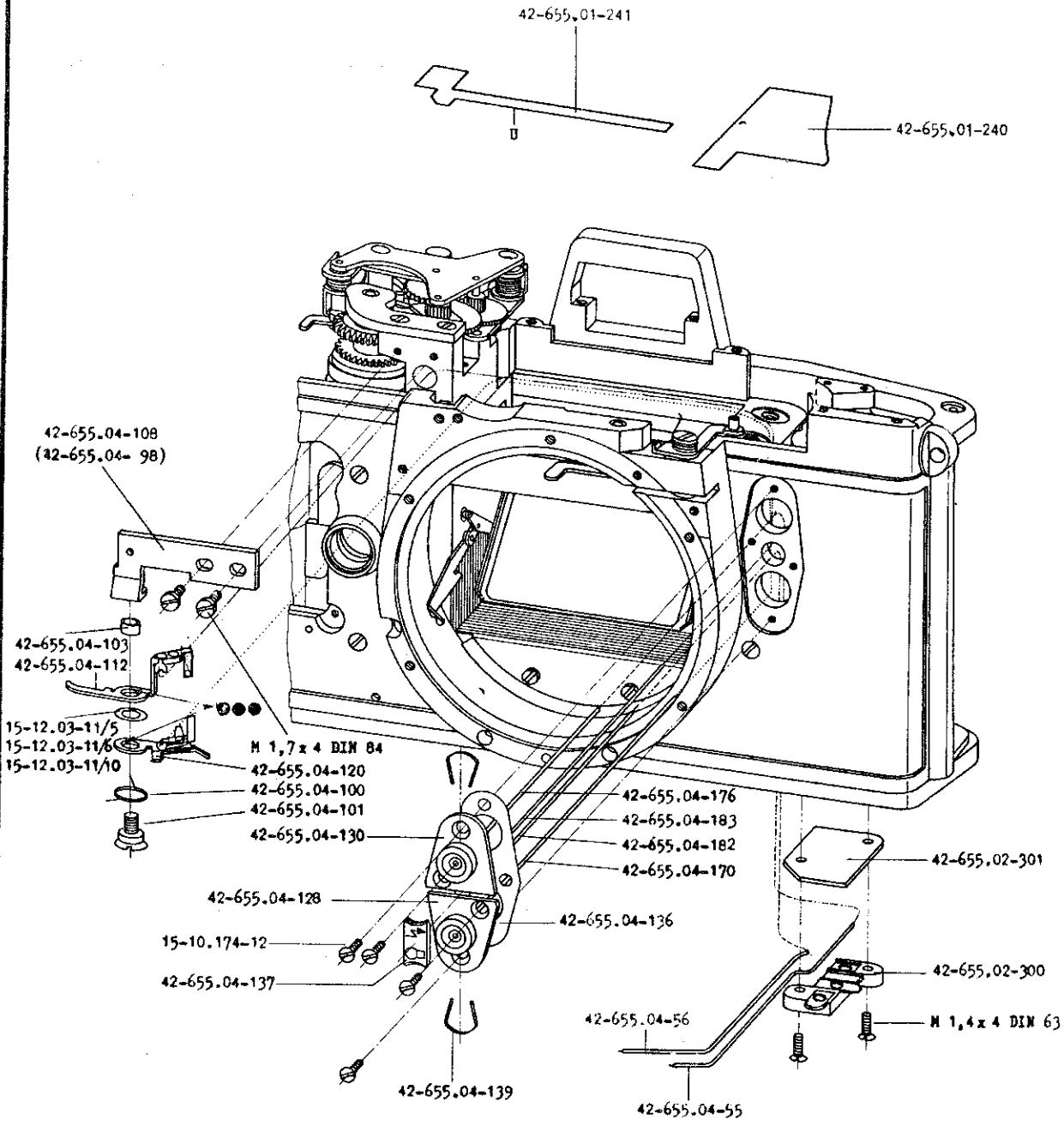
LEICAFLEX

Ausgangszustand ... Zustand 1
original state ... state 1

Leitz WETZLAR

Bestell-Nr / Part-No	Benennung / Description	LEICAFLEX
42-655.01-240	Dichtung / packing	1
42-655.01-241	Abdeckblech / cover	1
42-655.02-300	Kontakthalter contact holder	1
42-655.02-301	Isolierplatte insulation plate	1
42-655.04- 55	Kabel 90 mm lang cable 90 mm long	1
42-655.04- 56	Kabel 80 mm lang cable 80 mm long	1
42-655.04- 98	Halter, mont. holder, compl.	1
42-655.04-100	Schenkelfeder spring	1
42-655.04-101	Ansatzschraube shoulder screw	1
42-655.04-103	Buchse bush	1
42-655.04-108	Halter holder	1
42-655.04-112	Hebel, genietet lever, riveted	1
42-655.04-120	Hebel, montiert lever, compl.	1
42-655.04-128	Blitzlicht-Buchse, Untergr. flash bushing, sub. group	1
42-655.04-130	Blitzlicht-Buchse, Untergr. flash bushing, sub. group	1
42-655.04-136	Lötfahne soldering lug	1
42-655.04-137	Schild shield	1
42-655.04-139	Feder spring	2
42-655.04-170	Kabel 109 mm lang cable 109 mm long	1
42-655.04-176	Kabel 62 mm lang cable 62 mm long	1
42-655.04-182	Kabel 63 mm lang cable 63 mm long	1
42-655.04-183	Kabel 105 mm lang cable 105 mm long	1
M 1,4 x 4 DIN 63	Senkschraube, brüniert countersunk screw, burnished	2
M 1,7 x 4 DIN 84	Zylinderschraube, brüniert cylindrical head screw, burnished	2
15-10.174-12	Senkschraube, brüniert countersunk screw, burnished	4
15-12.03-11/5	Scheibe, 0,1 mm dick, bei Bedarf washer, 0.1 mm thick, when needed	1
15-12.03-11/6	Scheibe, 0,3 mm dick, bei Bedarf washer, 0.3 mm thick, when needed	1
15-12.03-11/10	Scheibe, 0,15 mm dick, bei Bedarf washer, 0.15 mm thick, when needed	1



B Sicherungslack
U UHU-hart
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Leitz WETZLAR

LEICAFLEX

Zustand 2 ...
state 2 ...

Blatt Sheet 8.2

Bestell-Nr Part-No	Benennung Description	LEICAFLEX
M1,7 x 4 DIN 84	Zylinderschraube, brüniert cylindrical head screw, burnished	2
15-[illegible]2	Senkschraube, brüniert countersunk screw, burnished	4
15-12.03-11/5	Scheibe, 0,1 mm dick, bei Bedarf washer, 0.1 mm thick, when needed	1
15-12.03-11/6	Scheibe, 0,3 mm dick, bei Bedarf washer, 0.3 mm thick, when needed	1
15-12.03-11/10	Scheibe, 0,15 mm dick, bei Bedarf washer, 0.15 mm thick, when needed	1

TECHNISCHER KUNDENDIENST

LEICAFLEX

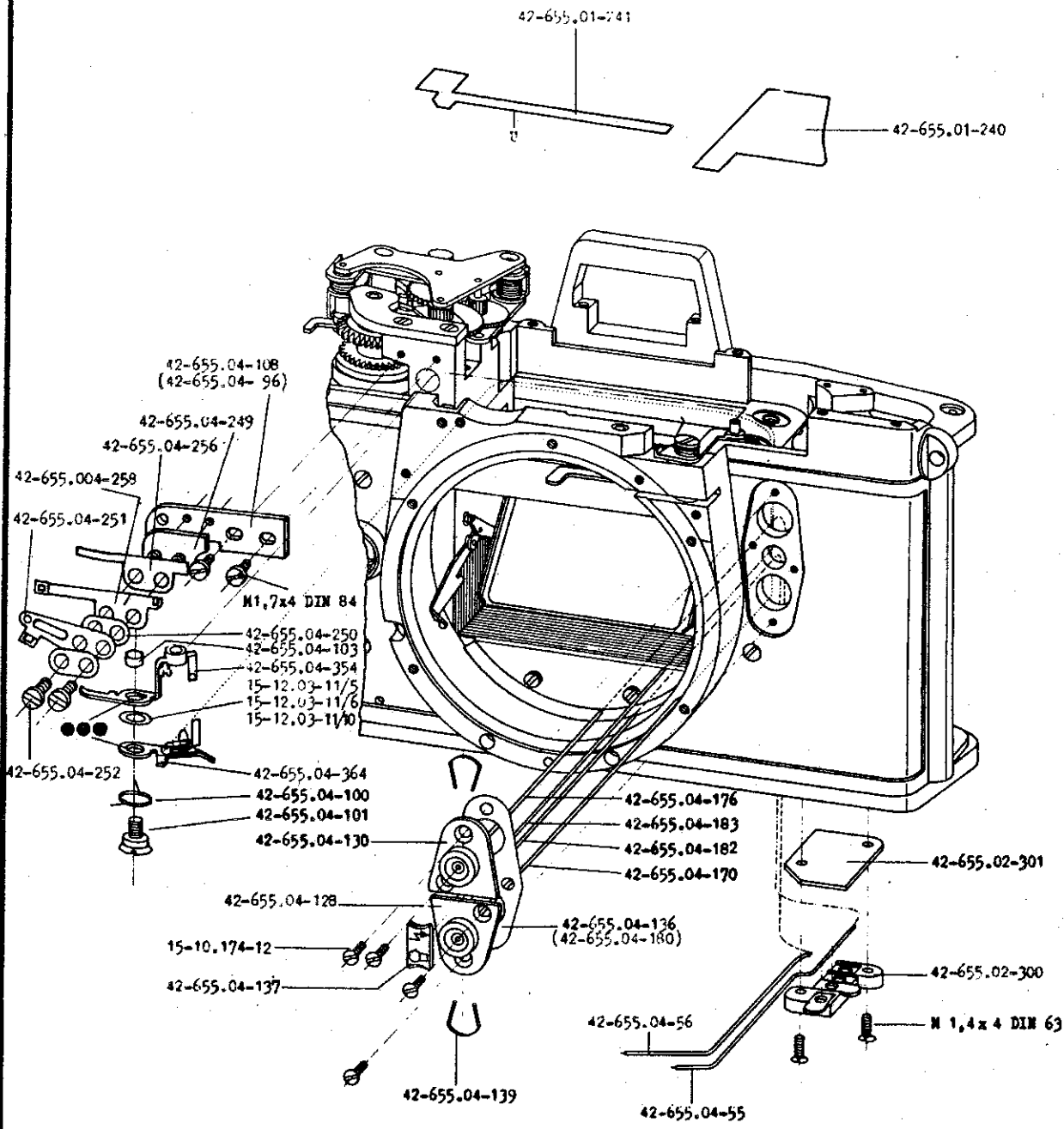
Zustand 2 ...
state 2 ...

Leitz WETZLAR

Bestell-Nr / Part-No	Benennung / Description	LEICAFLEX
42-655.01-240	Dichtung / packing	1
42-655.01-241	Abdeckblech , nur bis Zustand 2 / cover , up to state 2 only	1
42-655.02-300	Kontakthalter / contact holder	1
42-655.02-301	Isolierplatte / insulation plate	1
42-655.04- 55	Kabel 90 mm lang / cable 90 mm long	1
42-655.04- 56	Kabel 80 mm lang / cable 80 mm long	1
42-655.04- 96	Halter, vollst. / holder, compl.	1
42-655.04-100	Schenkelfeder / spring	1
42-655.04-101	Ansatzschraube / shoulder screw	1
42-655.04-103	Buchse / bush	1
42-655.04-108	Halter / holder	1
42-655.04-128	Steckdose, mont. / female plug, compl.	1
42-655.04-130	Steckdose, mont. / flash socket, compl.	1
42-655.04-136	Lötfahne / soldering lug	1
42-655.04-137	Schild / shield	1
42-655.04-139	Feder / spring	2
42-655.04-170	Kabel 109 mm lang / cable 109 mm long	1
42-655.04-176	Kabel 62 mm lang / cable 62 mm long	1
42-655.04-180	Lötfahne, gelötet / soldering lug,	1
42-655.04-182	Kabel 63 mm lang / cable 63 mm long	1
42-655.04-183	Kabel 105 mm lang / cable 105 mm long	1
42-655.04-249	Kontakthalter / contact holder	1
42-655.04-250	Isolierplatte / insolation plate	1
42-655.04-251	Kontaktfeder / contact spring	1
42-655.04-252	Schraube / screw	2
42-655.04-256	Kontaktfeder / contact spring	1
42-655.04-354	Hebel, genietet / lever, riveted	1
42-655.04-364	Hebel, montiert / lever, compl.	1
M1,4 x 4 DIN 63	Senkschraube, gruniert / countersunk screw, burnished	2

TECHNICAL SERVICE — TECHNISCHER KUNDENDIENST — 15. 3.1968

TECHNICAL SERVICE
TECHNISCHER KUNDENDIENST
15. 3.1968



B Sicherungslack
U UHU-hart
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Bestell-Nr Part-No	Benennung Description	LEICAFLEX
42-655.04-190	Zahnrad, genietet, 15,85 ø, 2 Rillen, 1 Körner, n. Bedarf gear, riveted, 15.85 dia., 2 grooves, 1 punch, when needed	1
42-655.04-197	Zahnrad, genietet, 15,85 ø, 2 Rillen, 1 Körner, n. Bedarf gear, riveted, 15.85 dia., 2 grooves, 1 punch, when needed	1
42-655.04-208	Scheibe, 0,06 mm dick, bei Bedarf washer, 0.06 mm thick, when needed	1
42-655.04 209	Scheibe, 0,1 mm dick, bei Bedarf washer, 0.1 mm thick, when needed	1
42-655.04-210	Scheibe, 0,15 mm dick, bei Bedarf washer, 0.15 mm thick, when needed	1
42-655.04-211	Scheibe, 0,2 mm dick, bei Bedarf washer, 0.2 mm thick, when needed	1
42-655.04-212	Scheibe, 0,3 mm dick, bei Bedarf washer, 0.3 mm thick, when needed	1
42-655.04-213	Scheibe, 0,4 mm dick, bei Bedarf washer, 0.4 mm thick, when needed	1
42-655.04-215	Zahnrad, genietet, 16,2 ø, 1 Rille, 1 Bohrung, n. Bedarf gear, riveted, 16.2 dia., 1 groove, 1 hole, when needed	1
42-655.04-225	Zahnrad, genietet, 15,7 ø, 2 Rillen, 1 Bohrung, n. Bedarf gear, riveted, 15.7 dia., 2 grooves, 1 hole, when needed	1
42-655.04-231	Zahnrad, genietet, 15,7 ø, 2 Rillen, 1 Bohrung, n. Bedarf gear, riveted, 15.7 dia., 2 grooves, 1 hole, when needed	1
42-655.05- 1	Hemmwerk slow speed escapement	1
42-655.804- 5	Zylinderschraube, brüniert, M 2,6, bei Bedarf cylindrical head screw, burnished, M2.6, when needed	3
42-655.804-45	Schraube, brüniert, M2, bei Bedarf screw, burnished, M2, when needed	3
M 1,7 x 5 DIN 551	Gewindestift, brüniert grub screw, burnished	1
2,3 DIN 6799	Sicherungsscheibe C-clip	1
M1,7 x 6 LN 12019	Gewindestift, brüniert grub screw, burnished	1
M2,3 x 5 LN12019	Zylinderschraube, brüniert, M 2,3 cylindrical head screw, burnished, M 2.3	3
M 2 x 3 LN 120 21	Zylinderschraube, brüniert cylindrical head screw, burnished	2
15-10.140- 9	Zylinderschraube cylindrical head screw	2
15-10.144- 5	Senkschraube, brüniert countersunk screw, burnished	4
15-10.174- 8	Senkschraube, brüniert, M 1,7 countersunk screw, burnished, M 1,7	3
15-10.20-8	Schraube, brüniert screw, burnished	1

TECHNISCHER KUNDENDIENST

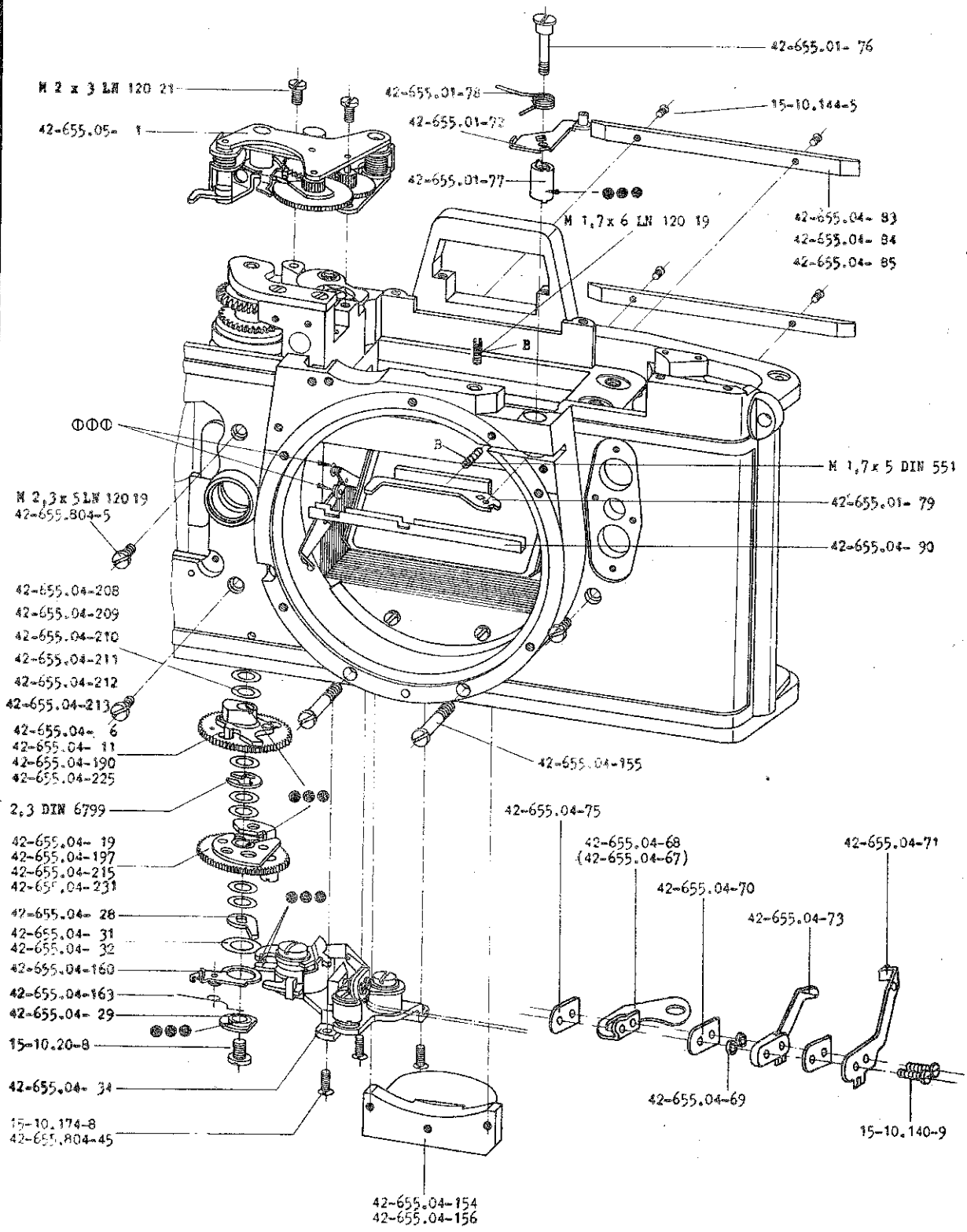
LEICAFLEX

Ausgangszustand ... Zustand 2
original state ... state 2

Leitz WETZLAR

Bestell-Nr Part-No	Benennung Description	LEICAFLEX
42-655.01- 72	Hebel, genietet lever, riveted	1
42-655.01- 76	Ansatzschraube shoulder screw	1
42-655.01- 77	Mitnehmer catch	1
42-655.01- 78	Schenkelfeder spring	1
42-655.01- 79	Tasthebel measuring lever	1
42-655.04- 6	Zahnrad, genietet, 16,02 ø, 1 Rille, 1 Körner, n. Bedarf gear, riveted 16.02 dia. 1 groove, 1 punch, when needed	1
42-655.04- 11	Zahnrad, genietet, 16,2 ø, 1 Rille, 1 Bohrung, n. Bedarf gear, riveted, 16.2 dia., 1 groove, 1 hole, when needed	1
42-655.04- 19	Zahnrad, genietet, 16,02 ø, 1 Rille, 1 Körner, n. Bedarf gear, riveted, 16.02 dia., 1 groove, 1 punch, when needed	1
42-655.04- 28	Mitnehmer catch	1
42-655.04- 29	Ring ring	1
42-655.04- 31	Scheibe, 0,1 mm dick, nach Bedarf washer, 0.1 mm thick, when needed	1
42-655.04- 32	Scheibe, 0,15 mm dick, nach Bedarf washer, 0.15 mm thick, when needed	1
42-655.04- 34	Bremse, vollst. brake, compl.	1
42-655.04- 67	Kontakthalter, Untergruppe contact holder, sub group	1
42-655.04- 68	Kontakthalter, Untergruppe contact holder, sub group	1
42-655.04- 69	Isolierbuchse insulation bush	1
42-655.04- 70	Isolierplatte insolation plate	2
42-655.04- 71	Kontaktfeder 4 contact spring 4	2
42-655.04- 73	Kontaktfeder 3 contact spring 3	1
42-655.04- 75	Platte plate	1
42-655.04- 83	Lichtleiste 1,2 mm dick light shield 1.2 mm thick	1
42-655.04- 84	Lichtleiste 1 mm dick light shield 1 mm thick	1
42-655.04- 85	Lichtleiste 0,8 mm dick light shield 0.8 mm thick	1
42-655.04- 90	Abdeckleiste cover ledge	1
42-655.04-154	Haltestück 9 mm ø, nach Bedarf holding piece 9 mm dia., when needed	1
42-655.04-155	Zylinderschraube cylindrical head screw	2
42-655.04-156	Haltestück 11 mm ø holding piece 11 mm dia.	1
42-655.04-160	Sperrwinkel, genietet locking angle, riveted	1
42-655.04-163	Schenkelfeder spring	1

TECHNICAL SERVICE
TECHNISCHER KUNDENDIENST
15. 3.1968



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B Sicherungslack

Bestell-Nr Part-No	Benennung Description	LEICAFLEX
42-655. 04-241	Haltestück, mont. holding piece, compl.	1
42-655.004-265	Bremse, vollst. breake, compl.	1
42-655.004-309	Kontaktfeder 3 contact spring 3	1
42-655.004-314	Kontaktfeder 4, genietet contact spring 4, riveted	1
42-655.004-325	Zahnrad, genietet, 16,02 ø, 1 Rille, 1 Körner, n. Bedarf gear, riveted, 16.02 dia., 1 groove, 1 punch, when needed	1
42-655.004-333	Zahnrad, genietet, 16,2 ø, 1 Rille, 1 Bohrung, n. Bedarf gear, riveted, 16.2 dia., 1 groove, 1 hole, when needed	1
42-655.004-339	Zahnrad, genietet, 15,85 ø, 2 Rillen, 1 Körner, n. Bedarf gear, riveted, 15.85 dia., 2 grooves, 1 punch, when needed	1
42-655. 05- 1	Hemmwerk slow speed escapement	1
42-655.804- 5	Zylinderschraube, brüniert, M 2,6, bei Bedarf cylindrical head screw, burnished, M 2.6, when needed	3
42-655.804- 45	Schraube, brüniert, M2, bei Bedarf screw, burnished, M2, when needed	3
M1,4 x 4 DIN 84	Zylinderschraube, brüniert cylindrical head screw, burnished	2
M 1,7 x 5 DIN551	Gewindestift, brüniert grub screw, burnished	1
2,3 DIN 6799	Sicherungsscheibe C-clip	1
M1,7x6 LN 120 19	Gewindestift, brüniert grub screw, burnished	1
M2,3x5 LN 120 19	Zylinderschraube, brüniert, M 2,3 cylindrical head screw, burnished, M 2.3	3
M 2 x 3 LN 120 21	Zylinderschraube, brüniert cylindrical head screw, burnished	2
15-10.174-8	Senkschraube, brüniert, M 1,7 countersunk screw, burnished, M 1.7	3
15-10.20 -8	Schraube, brüniert screw, burnished	1

TECHNISCHER KUNDENDIENST

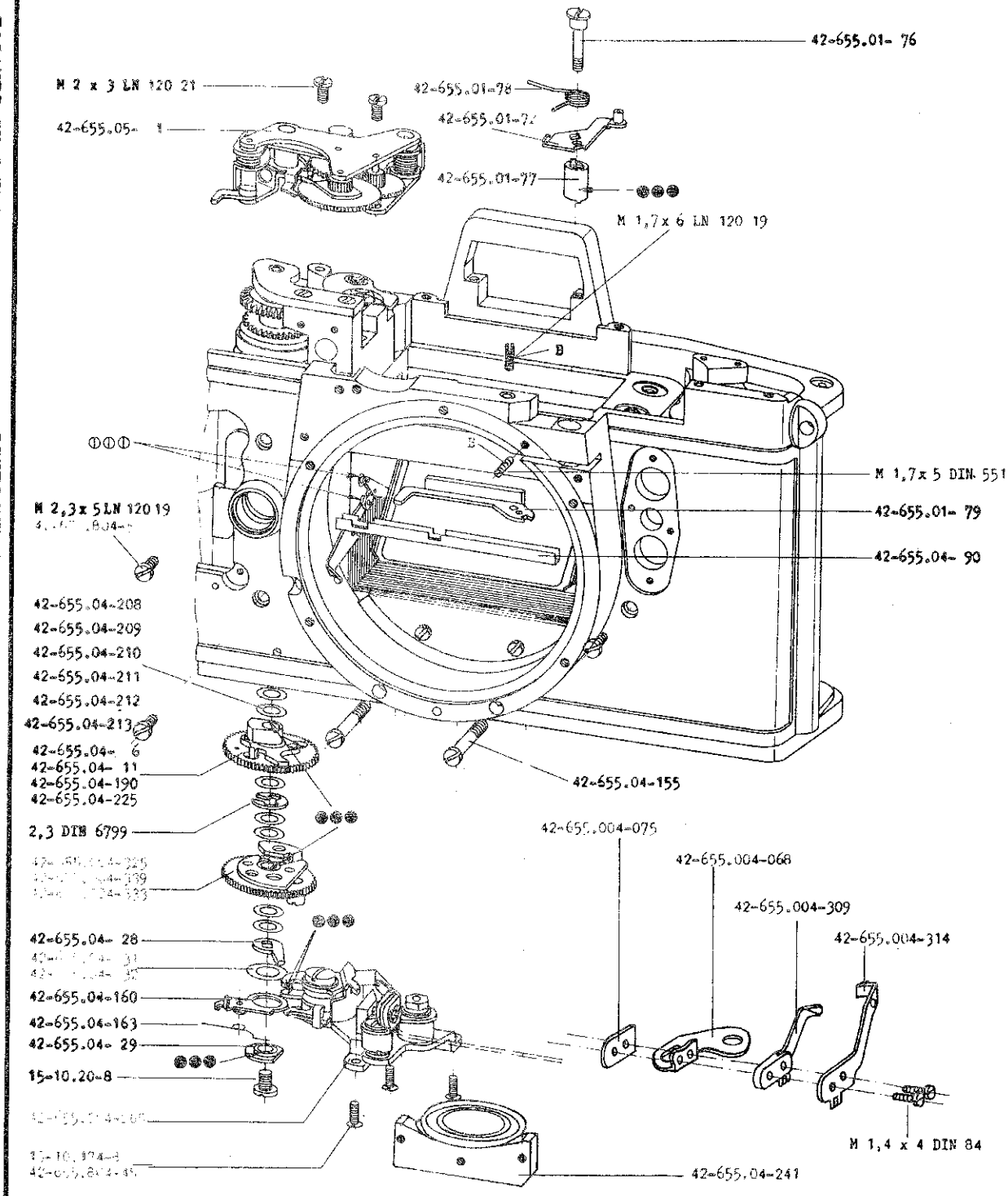
LEICAFLEX

Zustand 3 ...
state 3 ...

Leitz WETZLAR

Bestell-Nr Part-No	Benennung Description	LEICAFLEX
42-655.01- 72	Hebel, genietet lever, riveted	1
42-655.01- 76	Ansatzschraube shoulder screw	1
42-655.01- 77	Mitnehmer catch	1
42-655.01- 78	Schenkelfeder spring	1
42-655.01- 79	Tasthebel measuring lever	1
42-655.04- 6	Zahnrad, genietet, 16,02 ø, 1 Rille, 1 Körner, n. Bedarf gear, riveted 16.02 dia., 1 groove, 1 punch, when needed	1
42-655.04- 11	Zahnrad, genietet, 16,2 ø, 1 Rille, 1 Bohrung, n. Bedarf gear, riveted, 16.2 dia., 1 groove, 1 hole, when needed	1
42-655.04- 19	Zahnrad, genietet, 16,02 ø, 1 Rille, 1 Körner, n. Bedarf gear, riveted, 16.02 dia., 1 groove, 1 punch, when needed	1
42-655.04- 28	Mitnehmer catch	1
42-655.04- 29	Ring ring	1
42-655.04- 31	Scheibe 0,1 mm dick, nach Bedarf washer 0.1 mm thick, when needed	1
42-655.04- 32	Scheibe 0,15 mm dick, nach Bedarf washer 0.15 mm thick, when needed	1
42-655.04- 34	Bremse, vollst. brake, compl.	1
42-655.004-068	Kontakthalter contact holder	1
42-655.004-075	Platte plate	1
42-655.04- 90	Abdeckleiste cover ledge	1
42-655.04-155	Zylinderschraube cylindrical head screw	2
42-655.04-160	Sperrwinkel, genietet locking angle, riveted	1
42-655.04-163	Schenkelfeder spring	1
42-655.04-190	Zahnrad, genietet, 15,85 ø, 2 Rillen, 1 Körner, n. Bedarf gear, riveted, 15.85 dia., 2 grooves, 1 punch, when needed	1
42-655.04-197	Zahnrad, genietet, 15,85 ø, 2 Rillen, 1 Körner, n. Bedarf gear, riveted, 15.85 dia., 2 grooves, 1 punch, when needed	1
42-655.04-208	Scheibe, 0,06 mm dick, bei Bedarf washer, 0.06 mm thick, when needed	1
42-655.04-209	Scheibe, 0,1 mm dick, bei Bedarf washer, 0.1 mm thick, when needed	1
42-655.04-210	Scheibe, 0,15 mm dick, bei Bedarf washer, 0.15 mm thick, when needed	1
42-655.04-211	Scheibe, 0,2 mm dick, bei Bedarf washer, 0.2 mm thick, when needed	1
42-655.04-212	Scheibe, 0,3 mm dick, bei Bedarf washer, 0.3 mm thick, when needed	1
42-655.04-213	Scheibe, 0,4 mm dick, bei Bedarf washer, 0.4 mm thick, when needed	1
42-655.04-215	Zahnrad, genietet, 16,2 ø, 1 Rille, 1 Bohrung, n. Bedarf gear, riveted, 16.2 dia., 1 groove, 1 hole, when needed	1
42-655.04-225	Zahnrad, genietet, 15,7 ø, 2 Rillen, 1 Bohrung, n. Bedarf gear, riveted, 15.7 dia., 2 grooves, 1 hole, when needed	1
42-655.04-231	Zahnrad, genietet, 15,7 ø, 2 Rillen, 1 Bohrung, n. Bedarf gear, riveted, 15.7 dia., 2 grooves, 1 hole, when needed	1

TECHNICAL SERVICE
TECHNISCHER KUNDENDIENST



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B Sicherungslack

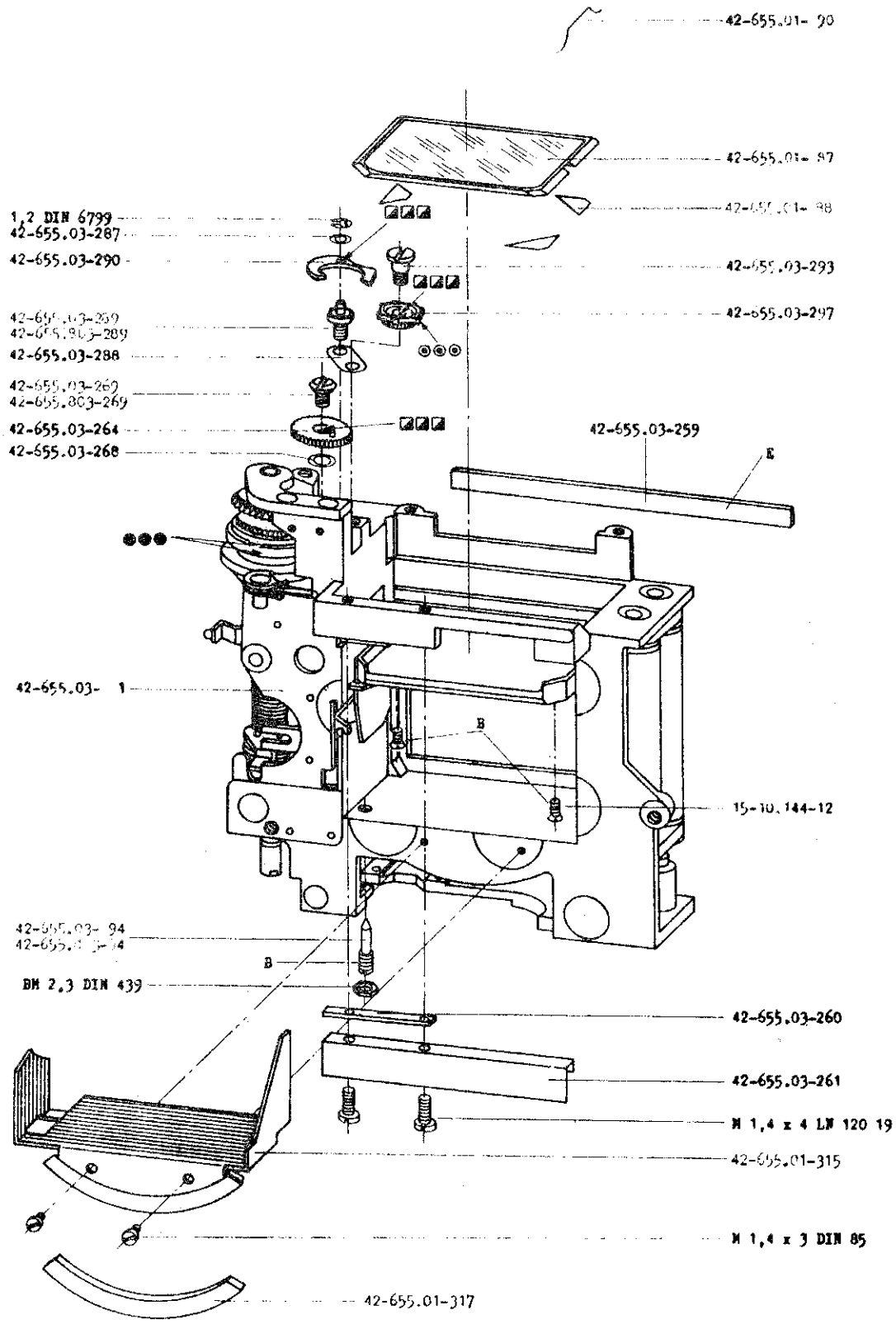
LEICAFLEX

Ausgangszustand ... Zustand 2
original state ... state 2

Leitz WETZLAR

Bestell-Nr / Part-No	Benennung / Description	LEICAFLEX
42-655.01- 87	Spiegel, gekittet mirror, cemented	1
42-655.01- 88	Unterlage foil	3
42-655.01- 90	Feder spring	1
42-655.01-315	Blende light shield	1
42-655.01-317	Filzstreifen felt strip	1
42-655.03- 1	Verschluß, kompl. (nur bis Zustand 1, für Zustand 2 42-655.03-2 verwenden - siehe Blatt 10.2) shutter, compl. (up to state 1 only, for state 2 use 42-655.03-2 - see sheet 10.2)	
42-655.03- 94	Gewindestift, brüniert, M 2,3 stud bolt, burnished, M 2.3	1
42-655.03-259	Dichtung packing	1
42-655.03-260	Leiste ledge	1
42-655.03-261	U-Leiste U-shaped ledge	1
42-655.03-264	Zahnrad, genietet gear, riveted	1
42-655.03-268	Scheibe washer	1
42-655.03-269	Schraube, phosphatiert, M2 screw, phosphated, M2	1
42-655.03-287	Scheibe washer	1
42-655.03-288	Scheibe washer	1
42-655.03-289	Achse, M2 axis, M2	1
42-655.03-290	Anker escapement	1
42-655.03-293	Schraube, M2 screw, M2	1
42-655.03-297	Steigrad, genietet retarding gear, riveted	1
42-655.803- 94	Gewindestift, brüniert, M2,6, bei Bedarf stud bolt, burnished, M 2.6, when needed	1
42-655.803-269	Schraube, phosphatiert, M 2,3, bei Bedarf screw, phosphated, M 2.3, when needed	1
42-655.803-289	Achse, M 2,3, bei Bedarf axis, M 2.3, when needed	1
42-655.803-293	Schraube, M 2,3, bei Bedarf screw, M2.3, when needed	1
15-10.144-12	Senkschraube, brüniert countersunk screw, burnished	2
M 1,4 x 3 DIN 85	Zylinderschraube, schwarz matt lackiert cylindrical head screw, dull black	2
BM 2,3 DIN 439	Sechskantmutter, brüniert hexagon nut, burnished	1
1,2 DIN 6799	Sicherungsscheibe C-clip	1
M1,4 x 4 LN 12019	Zylinderschraube, brüniert cylindrical head screw, burnished	2

TECHNISCHER KUNDENDIENST
15. 3.1968
TECHNICAL SERVICE



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B Sicherungslack
E Kleber EC 880

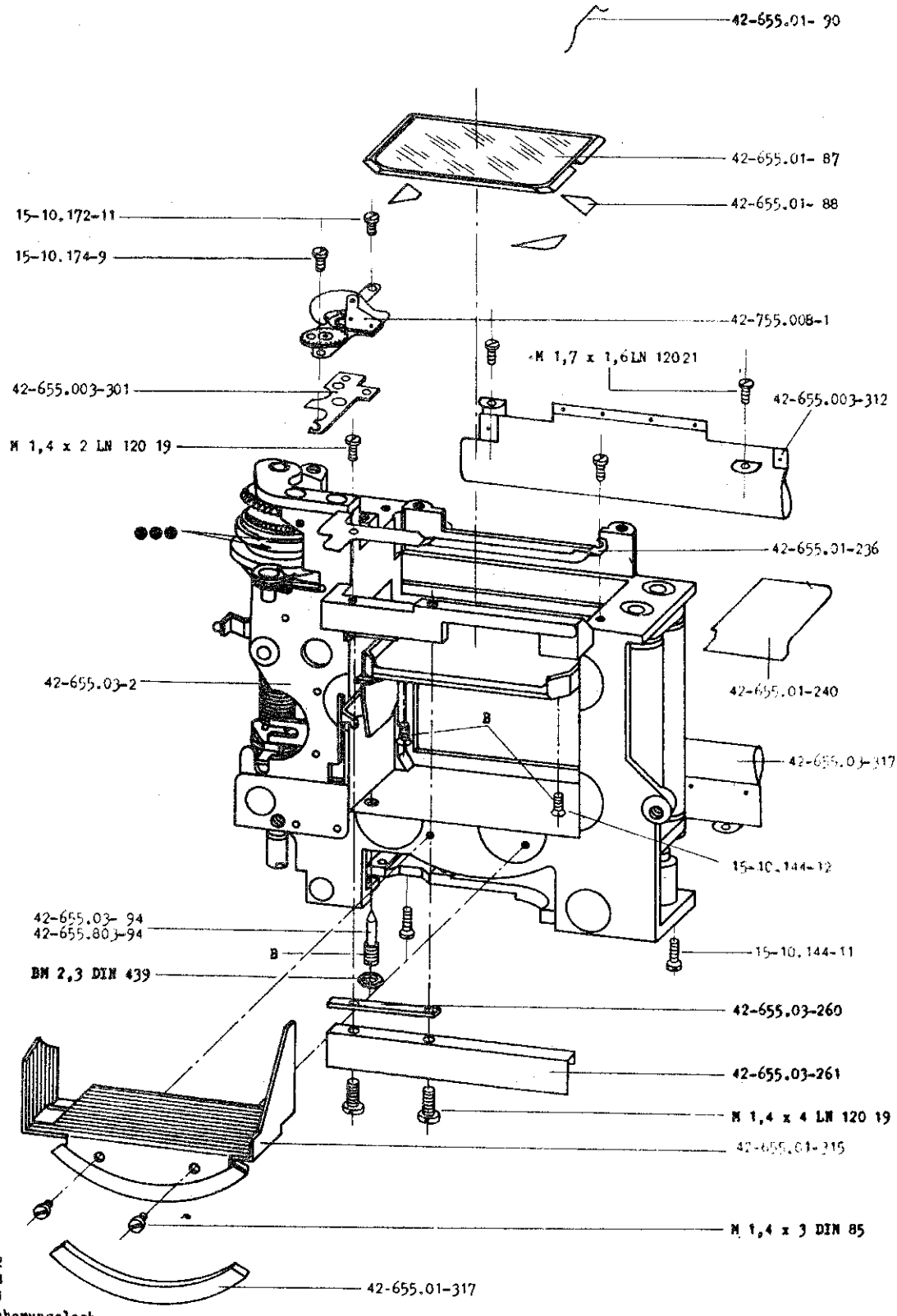
LEICAFLEX

Zustand 3 ...
state 3 ...

Leitz WETZLAR

Bestell-Nr Part-No	Benennung Description	LEICAFLEX
42-655.01- 87	Spiegel, gekittet mirror, cemented	1
42-655.01- 88	Unterlage foil	3
42-655.01- 90	Feder spring	1
42-655.01-236	Dichtung packing	1
42-655.01-240	Dichtung packing	1
42-655.01-315	Blende light shield	1
42-655.01-317	Filzstreifen felt strip	1
42-655.03- 2	Verschluß, kompl. shutter, compl.	1
42-655.03- 94	Gewindestift, brüniert, M 2,3 stud bolt, burnished, M 2.3	1
42-655.03-260	Leiste ledge	1
42-655.03-261	U-Leiste U-shaped ledge	1
42-655.03-301	Montageplatte assembly plate	1
42-655.03-312	Klemmleiste, obere upper, clamping ledge	1
42-655.03-317	Klemmleiste, untere lower, clamping ledge	1
42-655.803-94	Gewindestift, brüniert, M 2,6, bei Bedarf stud bolt, burnished, M 2.6, when needed	1
42-755.008- 1	Vorschalthemmwerk coupling slow speed escapement	1
M 1,4 x 3 DIN 85	Zylinderschraube, schwarz matt lackiert cylindrical head screw, dull black	2
BM 2,3 DIN 439	Sechskantmutter, brüniert hexagon nut, burnished	1
M1,4 x4 LN 12019	Zylinderschraube, brüniert cylindrical head screw, burnished	2
M1,7x1,6 LN12021	Zylinderschraube, brüniert cylindrical head screw, burnished	2
15-10.144-11	Senkschraube, brüniert countersunk screw, burnished	2
15-10.144-12	Senkschraube, brüniert countersunk screw, burnished	2
15-10.172-11	Linsenschraube, brüniert oval head screw, burnished	1
15-10.174- 9	Senkschraube, brüniert countersunk screw, burnished	1

TECHNICAL SERVICE
TECHNISCHER KUNDENDIENST
15. 3.1968



Leitz WETZLAR

LEICAFLEX

Ausgangszustand ...
original state ...

Bestell-Nr Part-No	Benennung Description	LEICAFLEX
15-10.173-9	Schraube, brüniert screw, burnished	1
15-12.01-19/2	Scheibe, 0,2 mm dick washer, 0.2 mm thick	1
15-12.02-29/1	Scheibe 0,2 mm dick washer 0.2 mm thick	1

LEICAFLEX

Ausgangszustand ... / original state ...

Leitz WETZLAR

Bestell-Nr / Part-No	Benennung / Description	LEICAFLEX
42-655.01-125	Halter / holder	1
42-655.02- 57	Lager / bearing	1
42-655.02- 58	Lagerdeckel / bearing cover	1
42-655.02- 60	Aufzugsrad 6,54 mm ø, nach Bedarf / winding gear 6.54 mm dia., when needed	1
42-655.02- 63	Aufzugsrad 6,45 mm ø, nach Bedarf / winding gear 6.45 mm dia., when needed	1
42-655.02-126	Rasthebel / locking lever	1
42-655.02-128	Schenkelfeder (nur bis Zustand 2, ab Zustand 3 42-655.02-133 verwenden) / spring (up to state 2 only, from state 3 onwards use 42-655.02-133)	1
42-655.02-130	Schraube (nur bis Zustand 2, ab Zustand 3 42-655.02-134 verwenden) / spring (up to state 2 only, from state 3 onwards use 42-655.02-134)	1
42-655.02-137	Schenkelfeder / spring	1
42-655.02-143	Lagerbrücke / bearing bracket	1
42-655.02-148	Aufzug, mont. (nur bis Zustand 2, ab Zustand 3 42-655.02-146 verwenden) / winding mech., ass. (up to state 2 only, from state 3 onwards use 42-655.02-146)	1
42-655.02-206	Hebel / lever	1
42-655.02-212	Ansatzschraube, brüniert, M 2 / shoulder screw, burnished, M 2	1
42-655.02-214	Schenkelfeder / spring	1
42-655.02-215	Rasthebel / locking lever	1
42-655.02-219	Schraube, brüniert, M 1,4 / screw, burnished, M 1.4	1
42-655.02-220	Hebel / lever	1
42-655.02-221	Achse / shaft	1
42-655.02-222	Schalthebel / pawl	1
42-655.02-336	Zahnrad / gear	1
42-655.02-337	Lichtschutz / light protection	1
42-655.802- 59	Zylinderschraube, brüniert, M 2,3, bei Bedarf / cylindrical head screw, burnished, M 2.3, when needed	2
42-655.802-212	Ansatzschraube, brüniert, M 2,3, bei Bedarf / shoulder screw, burnished, when needed	1
42-655.802-219	Schraube, brüniert, M 1,7, bei Bedarf / screw, burnished, M1.7, when needed	1
M 2 x 5 DIN 63	Schraube, brüniert / screw, burnished	1
M1,4 x 3 DIN 84	Zylinderschraube, brüniert / cylindrical head screw, burnished	3
M 2 x 3 DIN 84	Zylinderschraube, brüniert, M2 / cylindrical head screw, burnished, M2	2
1,5 mm III DIN 5401	Stahlkugel / ball	11
1,2 DIN 6799	Sicherungsscheibe / C-clip	3
2,3 DIN 6799	Sicherungsscheibe / C-clip	1
M 2 x 4 LN 120 21	Zylinderschraube, brüniert / cylindrical head screw, burnished	2
15-10.140-12	Schraube, brüniert / screw, burnished	1
15-10.141- 7	Schraube, brüniert / screw, burnished	1